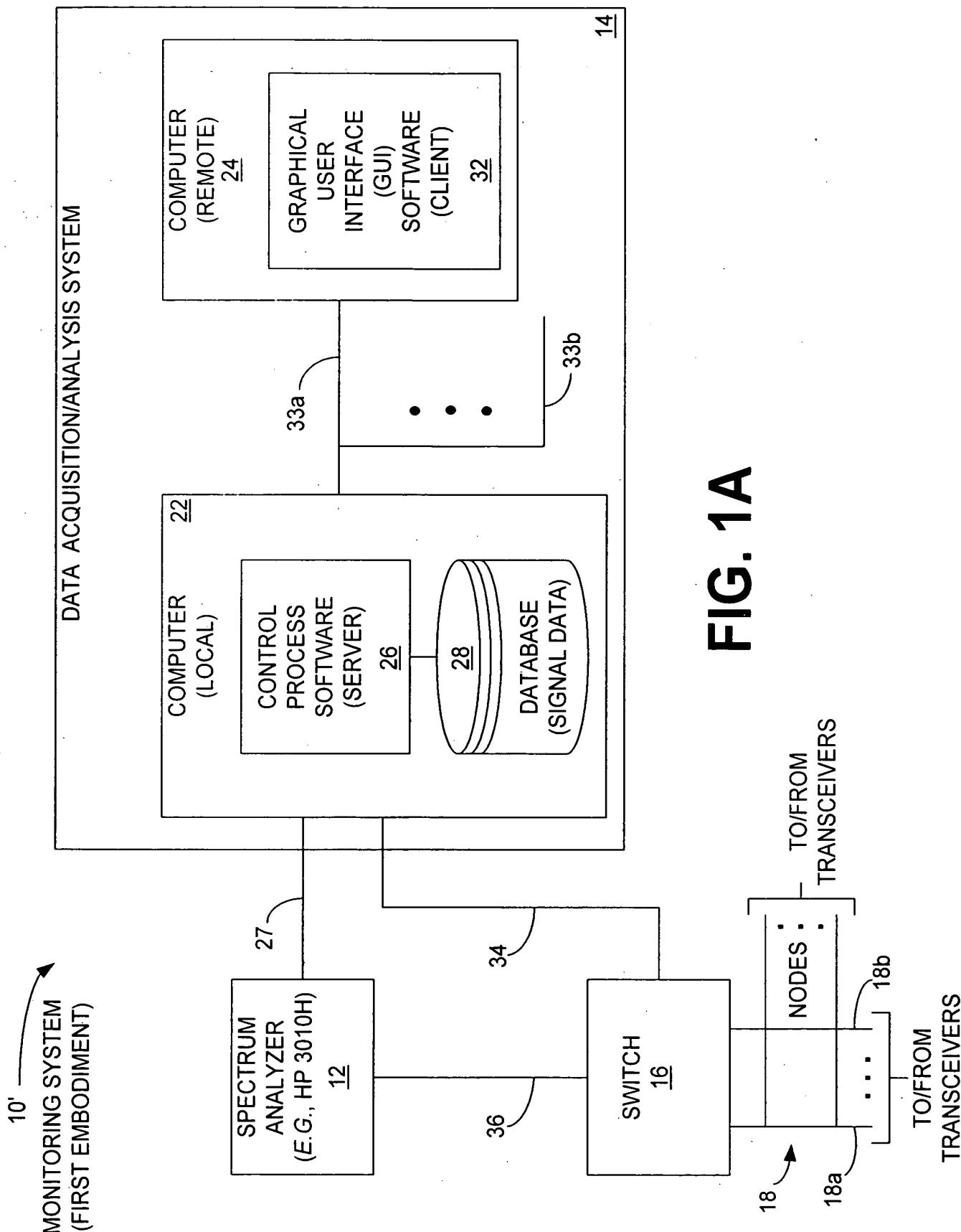
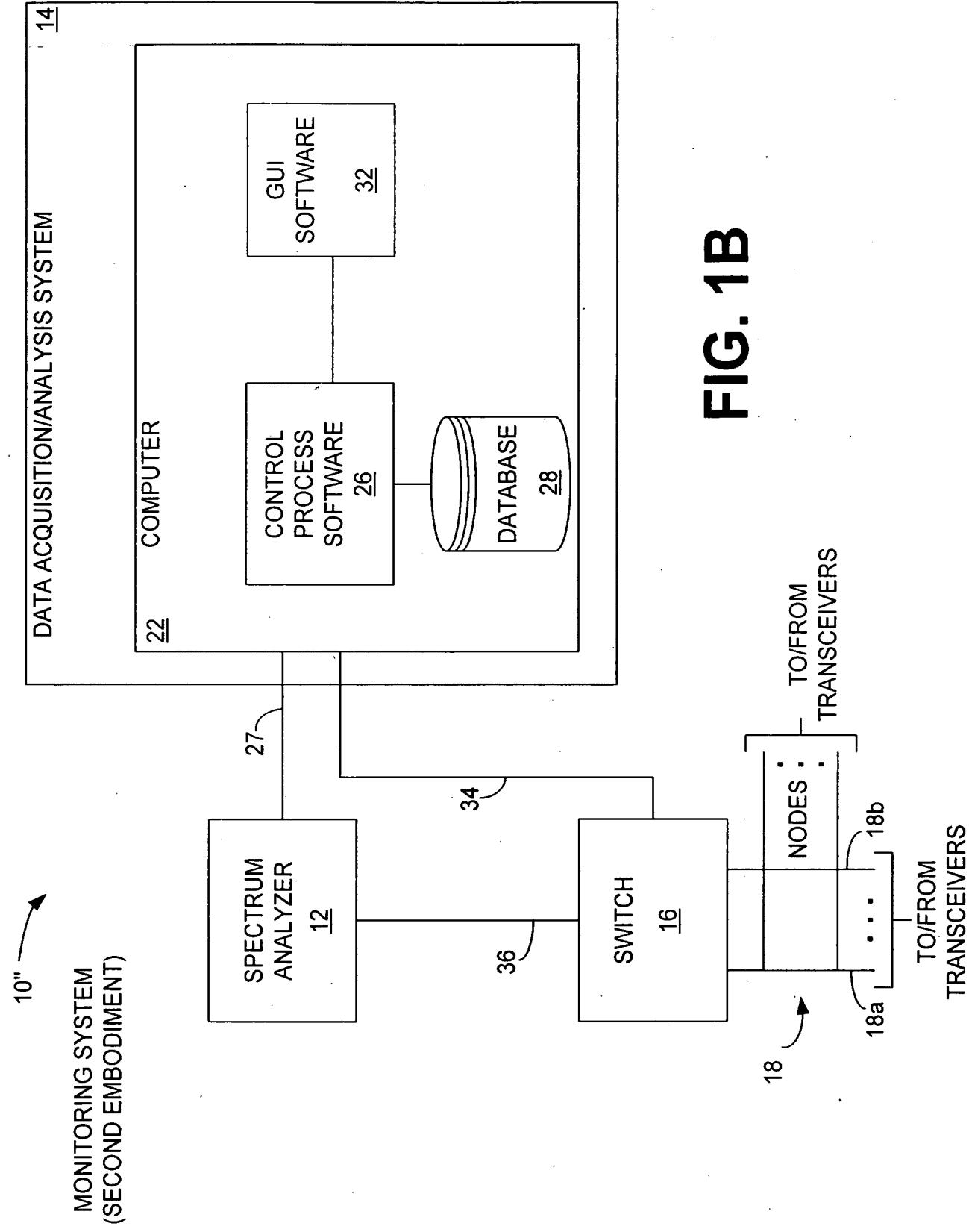
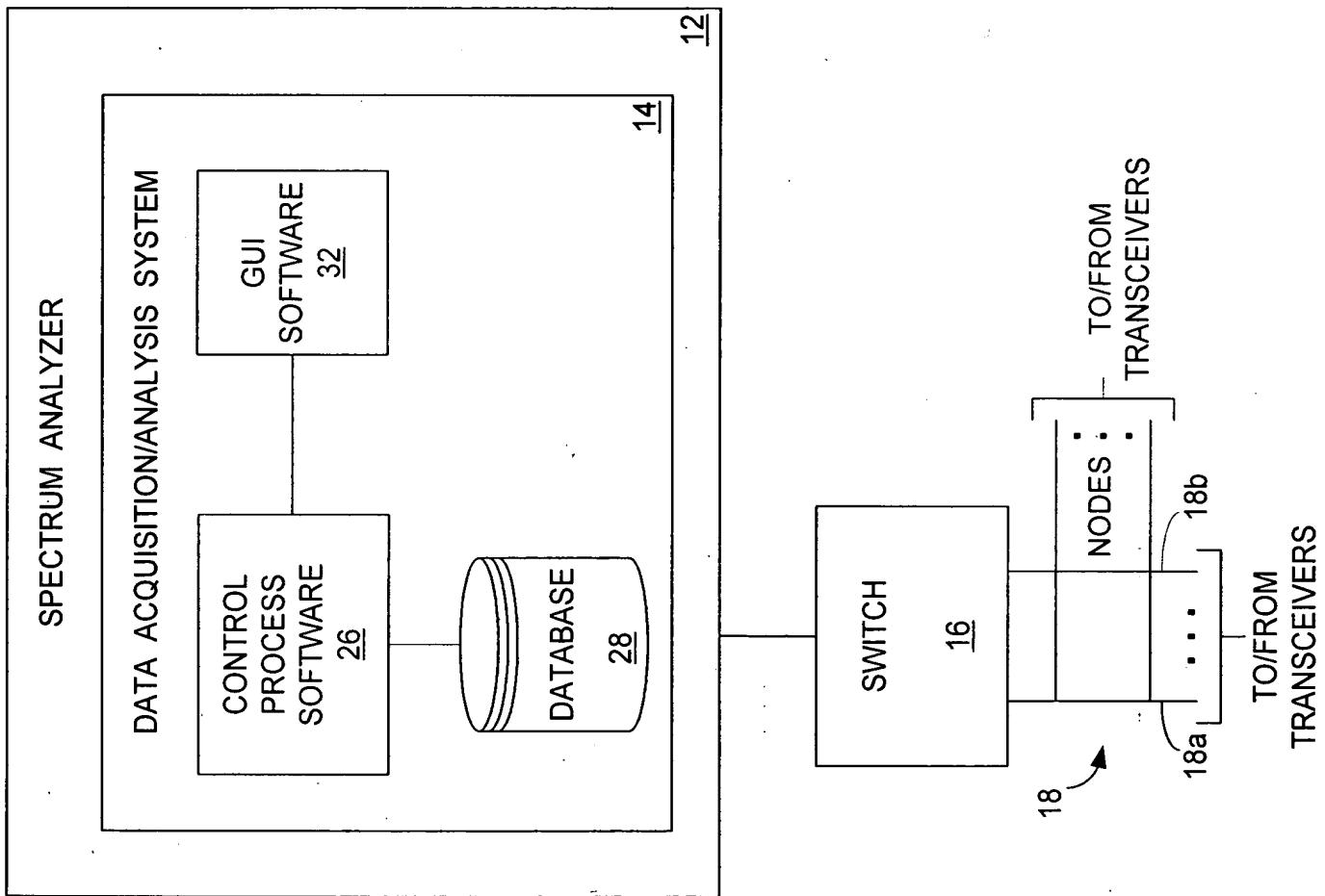


09 | 451286

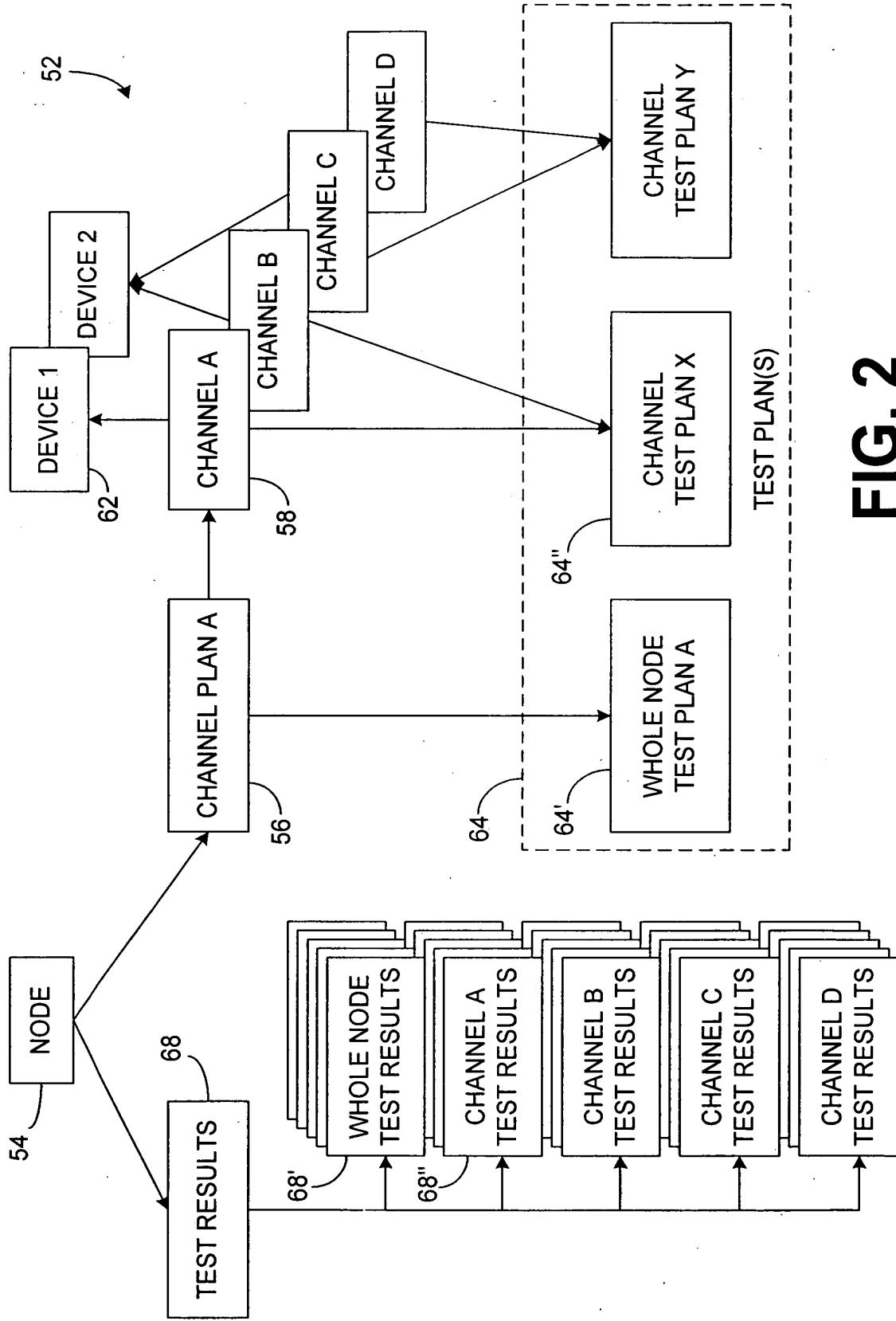




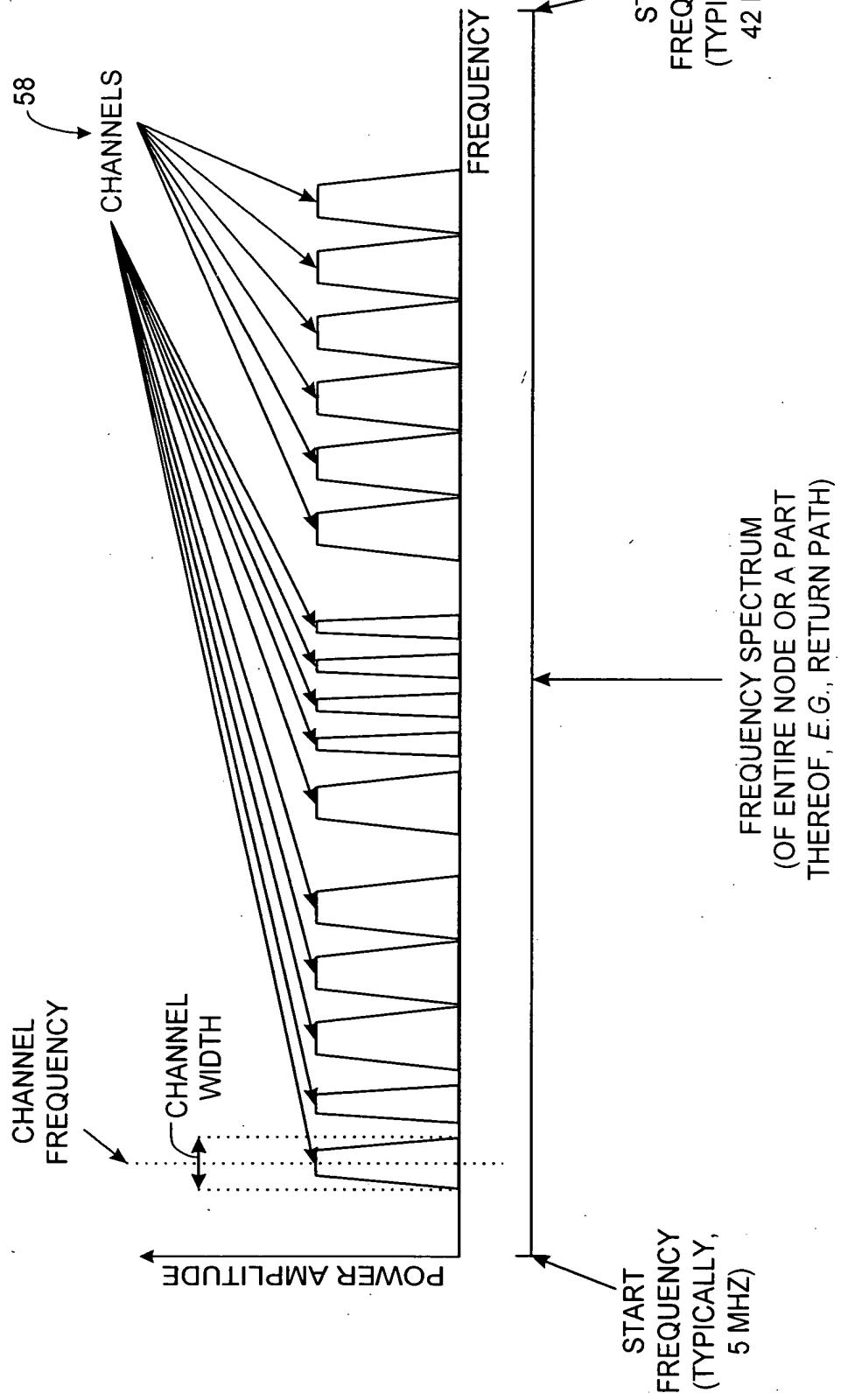


**FIG. 1C**

## DATA STRUCTURE OF DATABASE

**FIG. 2**

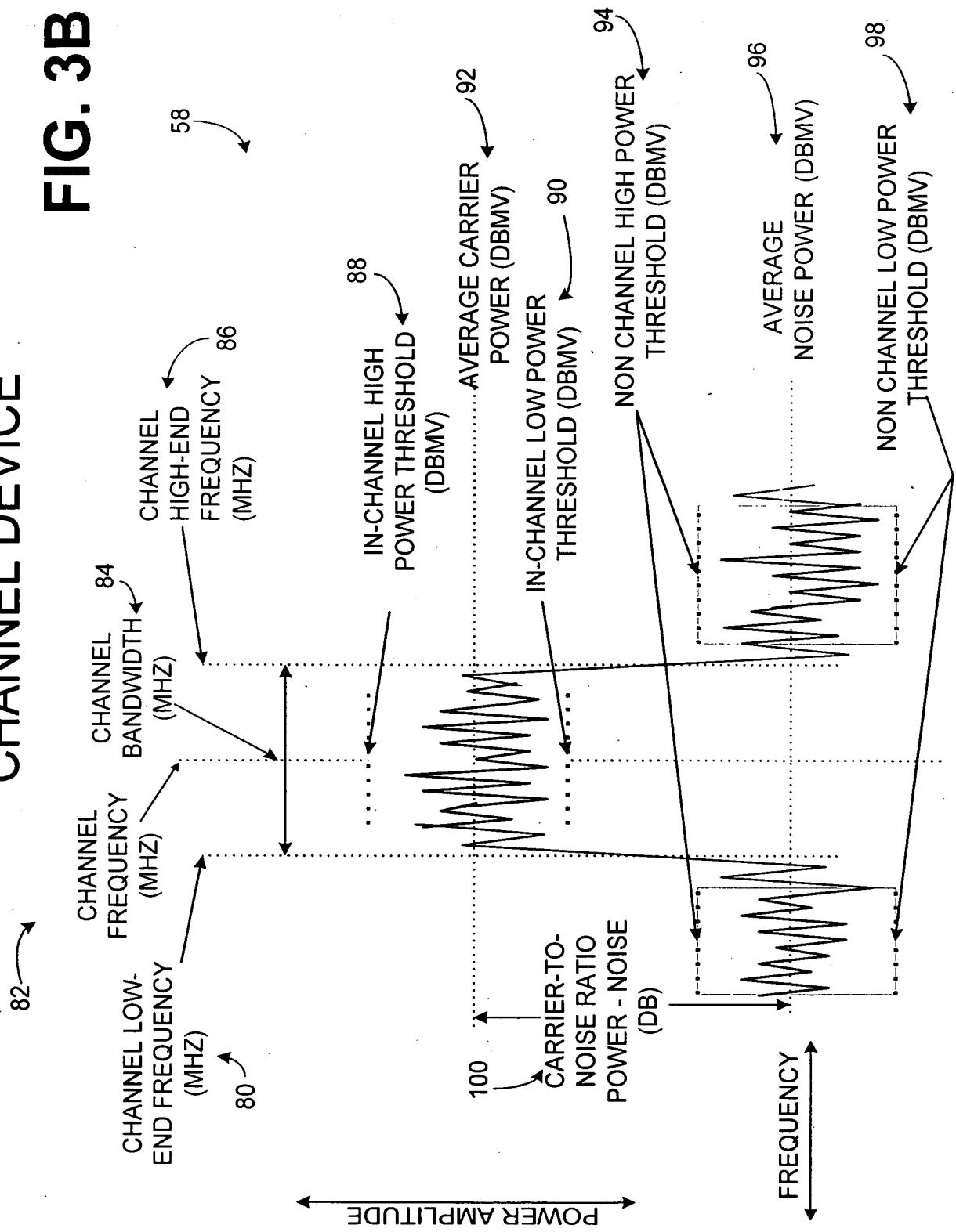
# CHANNEL PLAN



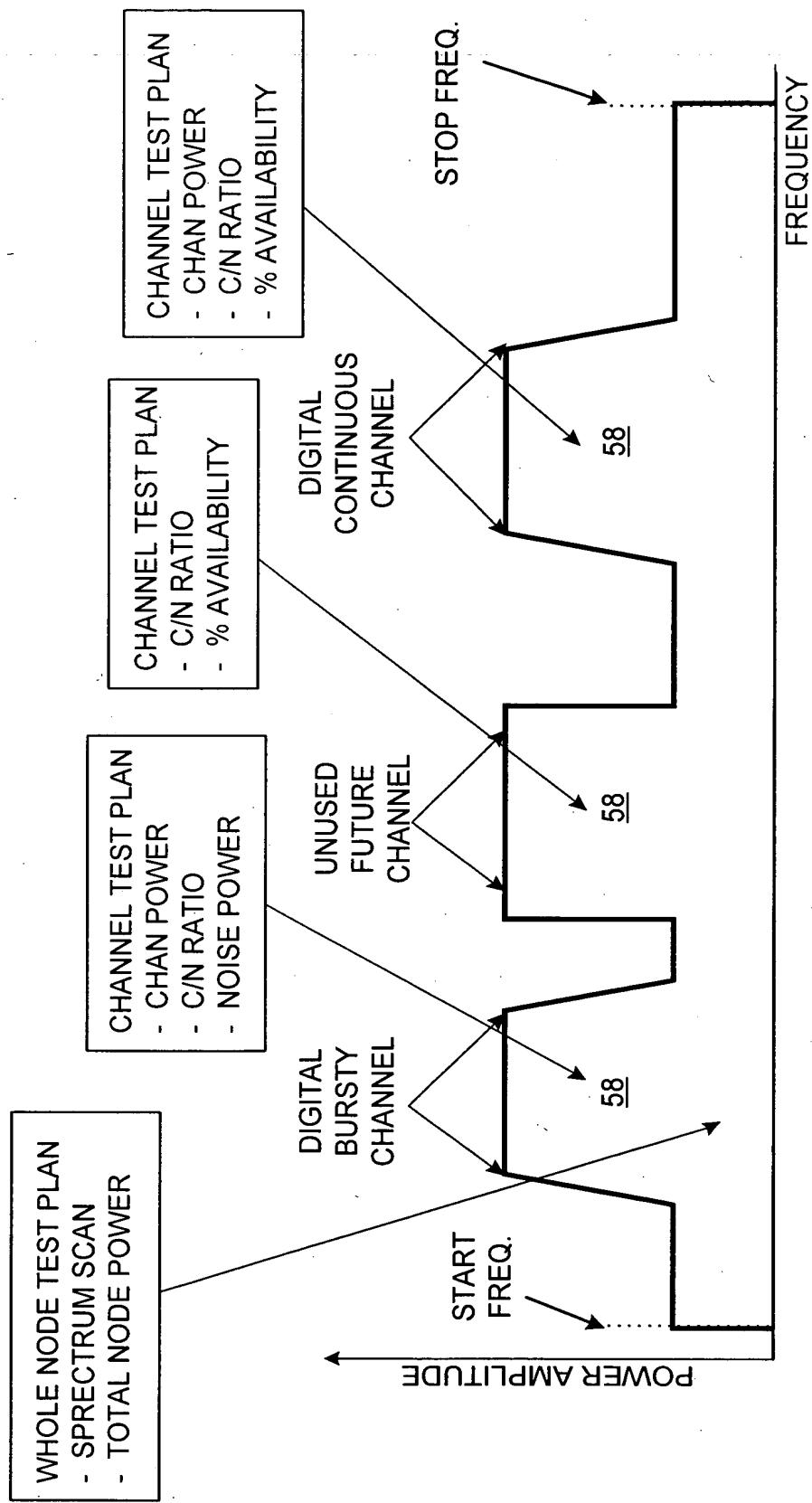
**FIG. 3A**

# CHANNEL DEVICE

**FIG. 3B**



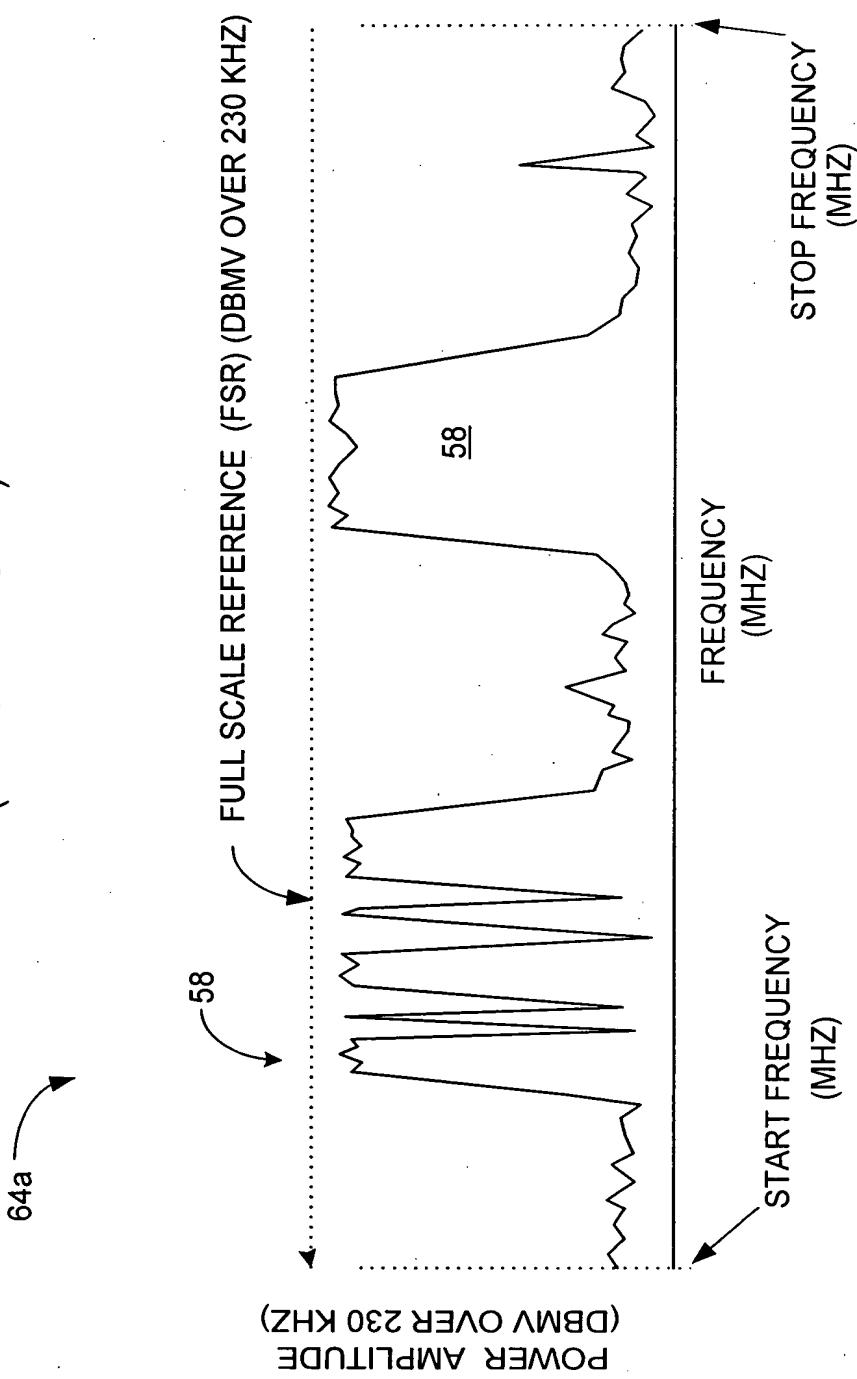
# TEST PLAN



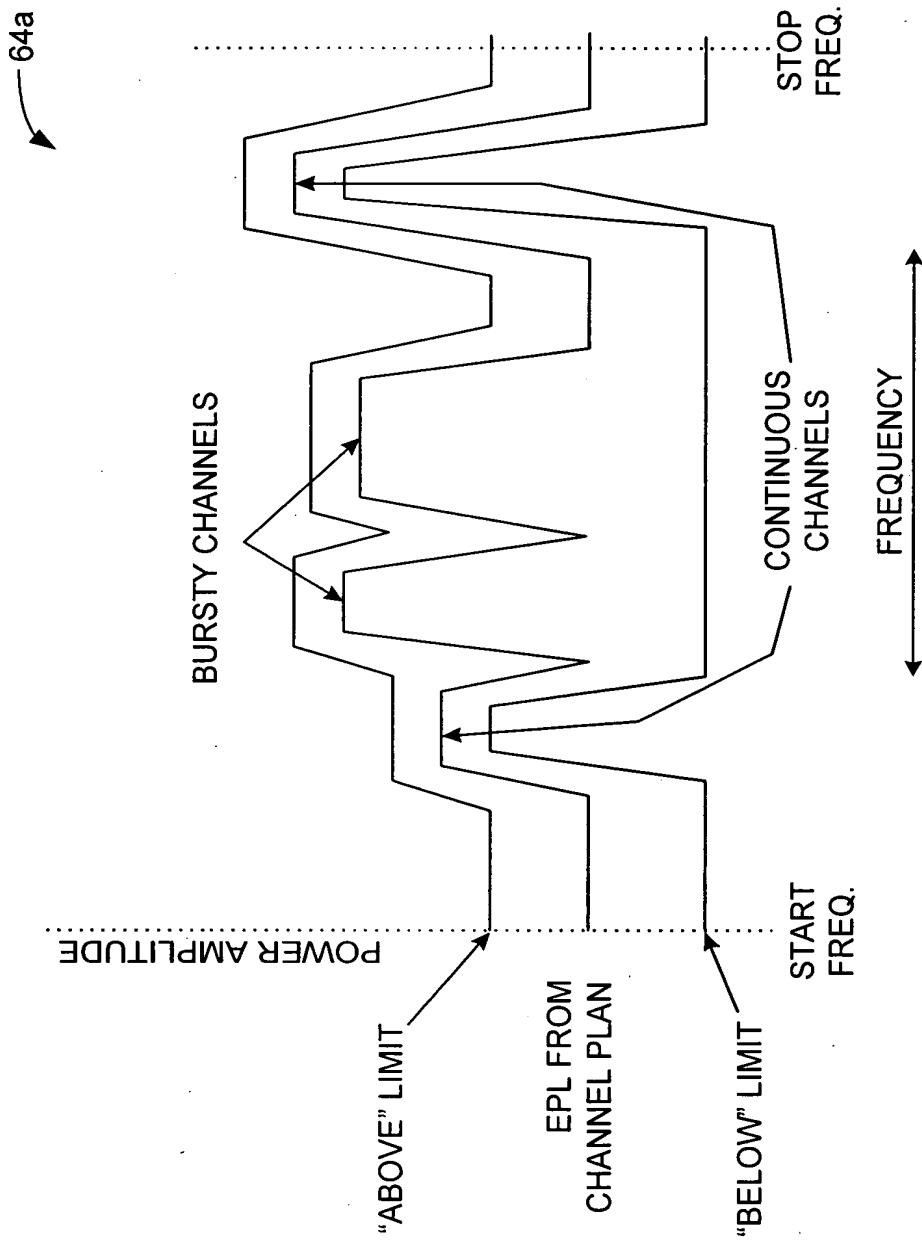
**FIG. 3C**

**FIG. 3D**

**SPECTRUM SCAN TEST  
(WHOLE NODE)**



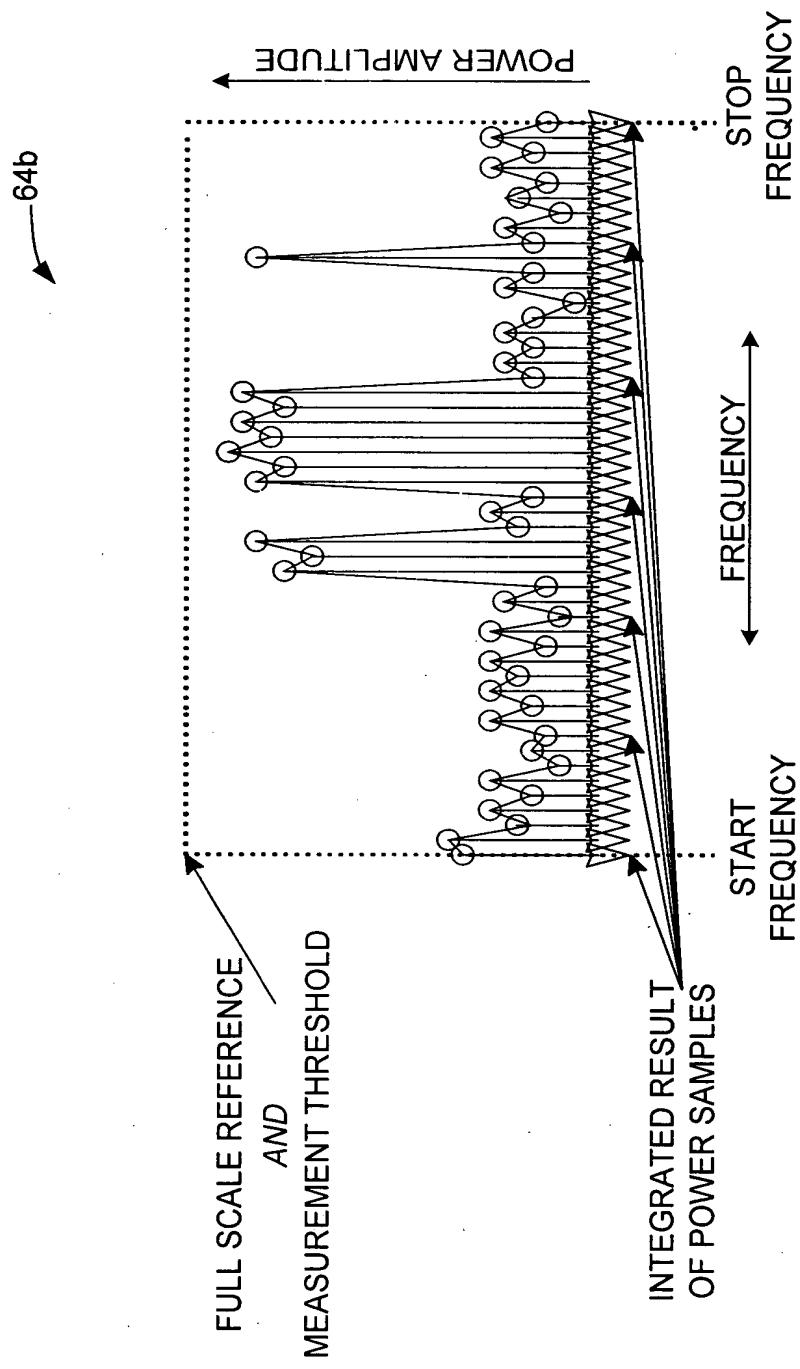
## SPECTRUM SCAN TEST (ALARM LIMITS)



**FIG. 3E**

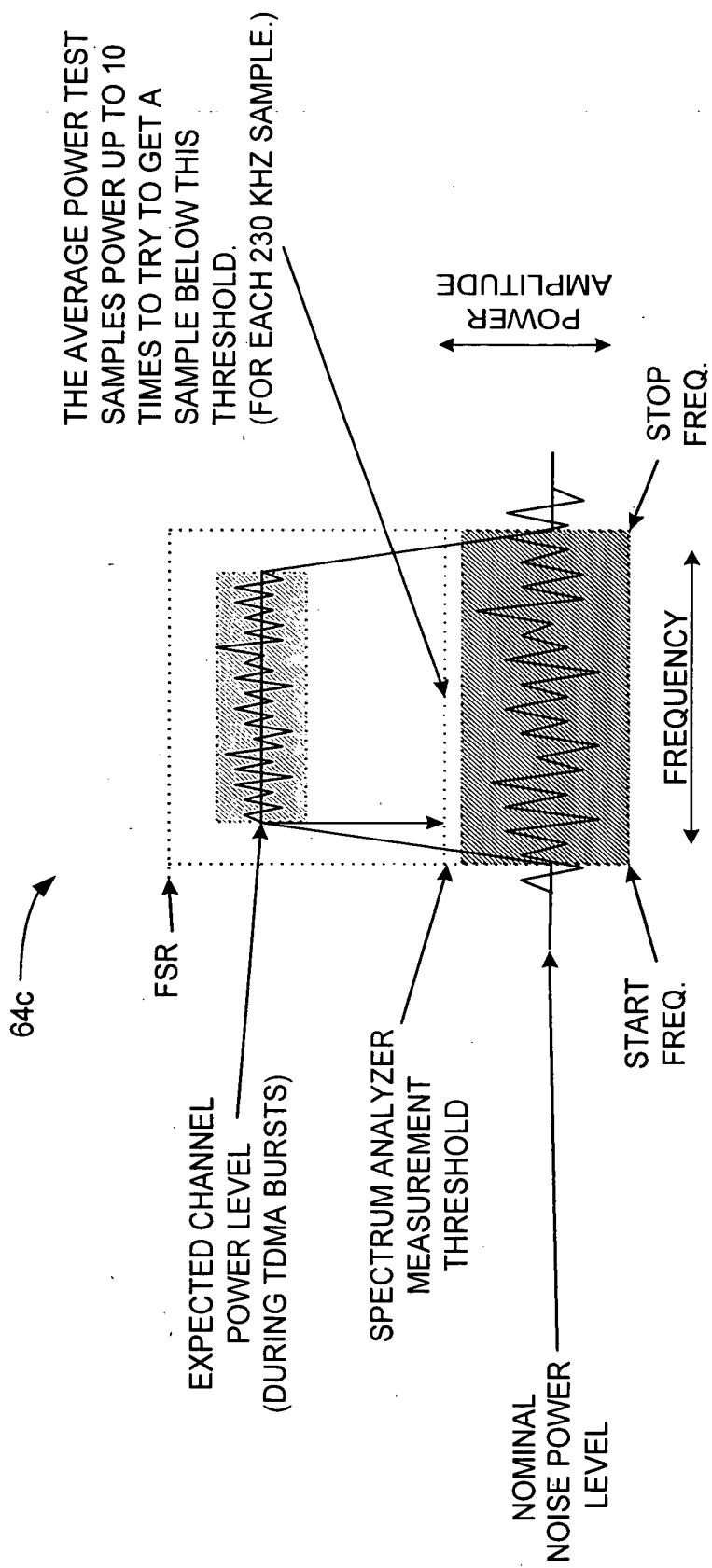
EDID 1.4 2023-07-01

## TOTAL NODE POWER TEST (WHOLE NODE)



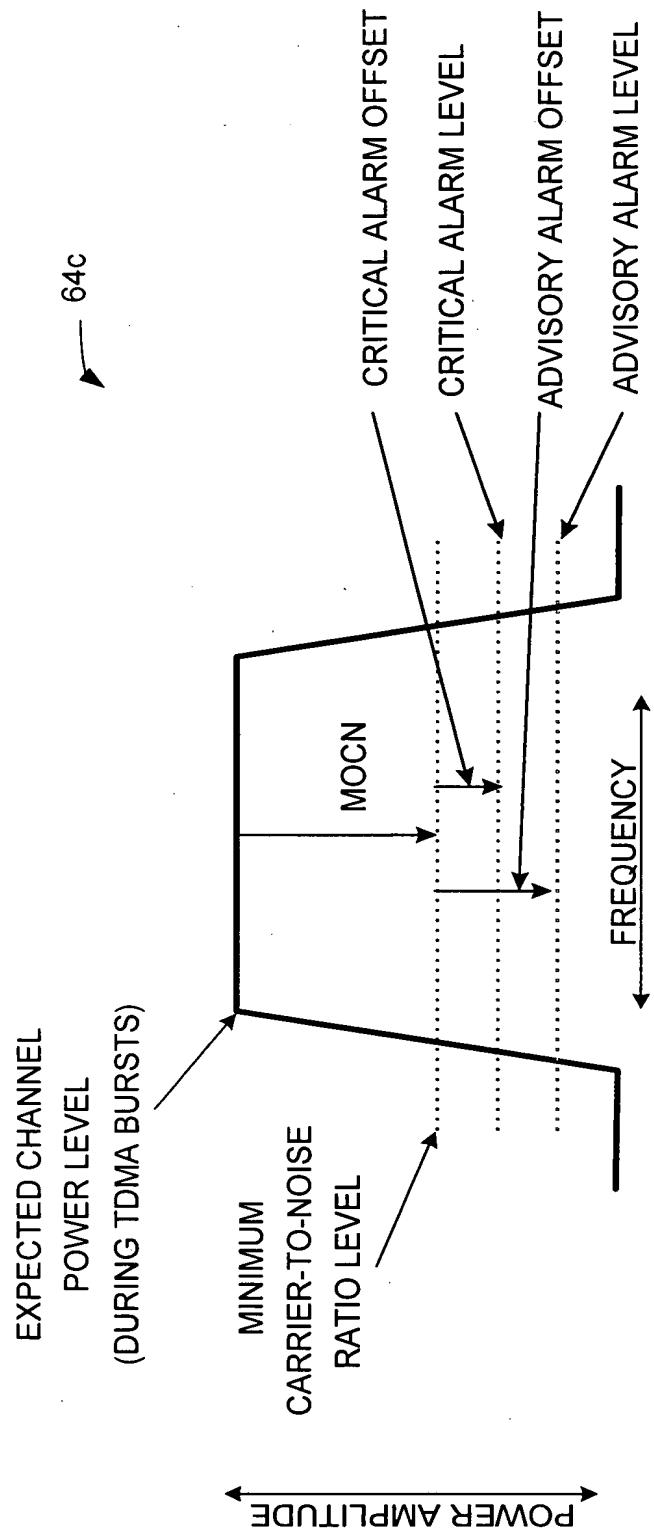
**FIG. 3F**

## AVERAGE NOISE POWER TEST (CHANNEL)



**FIG. 3G**

## AVERAGE NOISE POWER TEST (ALARM LIMITS)



**FIG. 3H**

# CHANNEL POWER TEST (CHANNEL)

64d

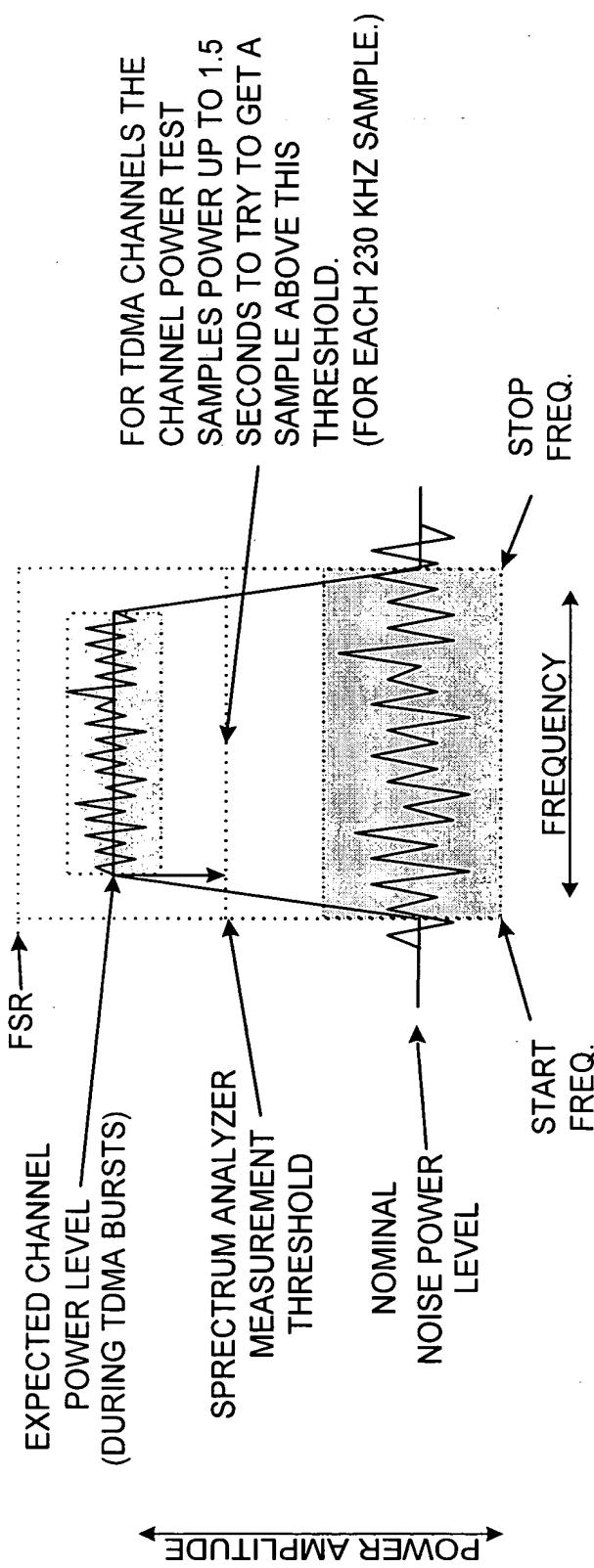
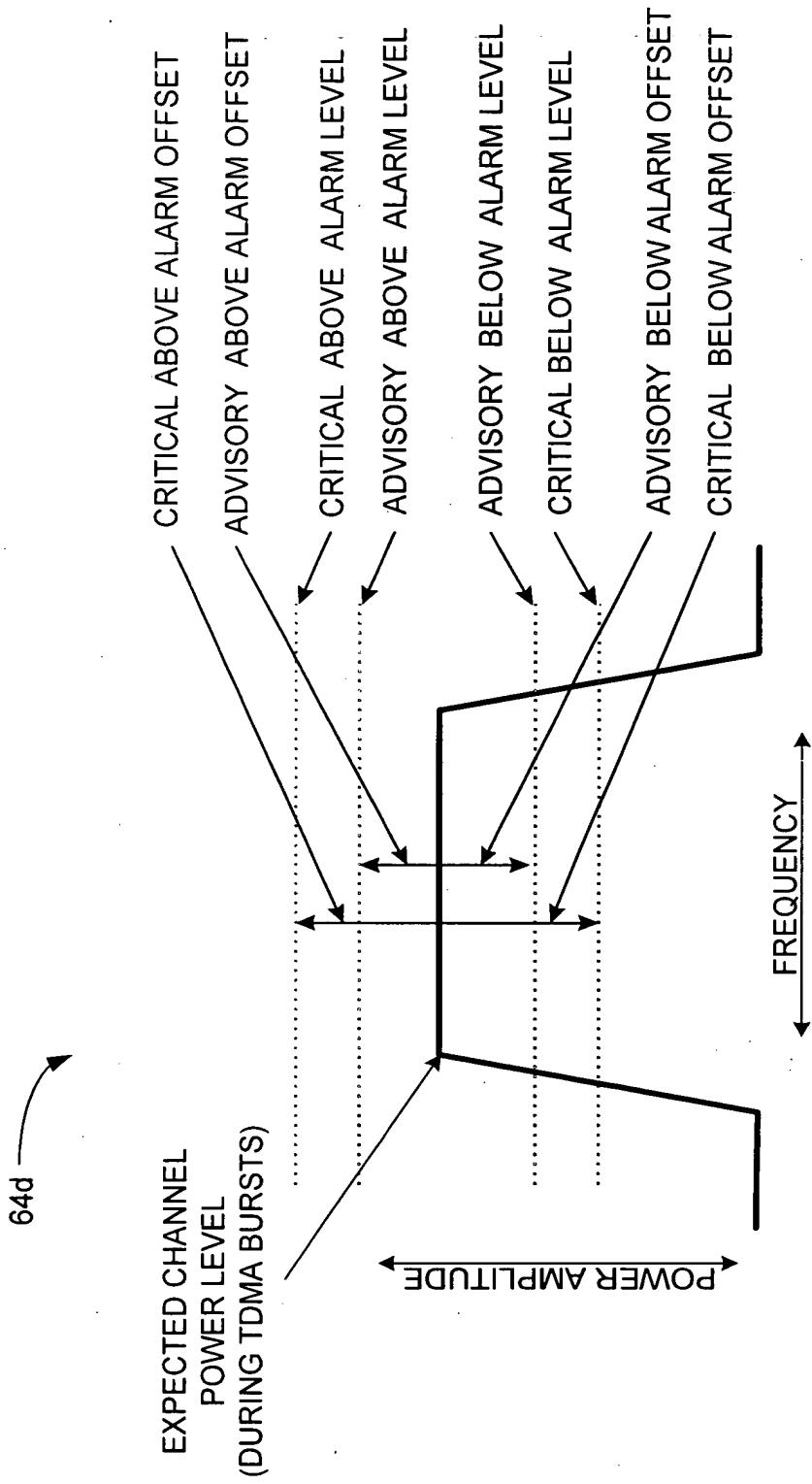


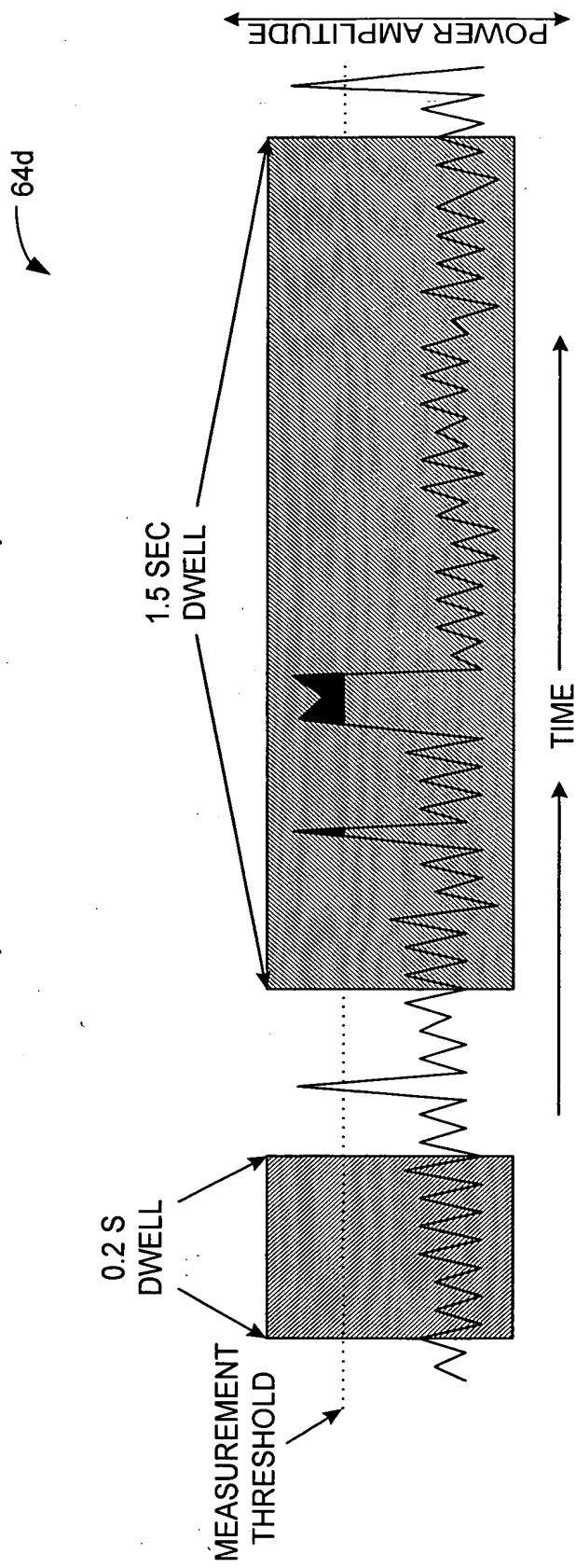
FIG. 31

CHANNEL POWER TEST  
(ALARM LIMITS)



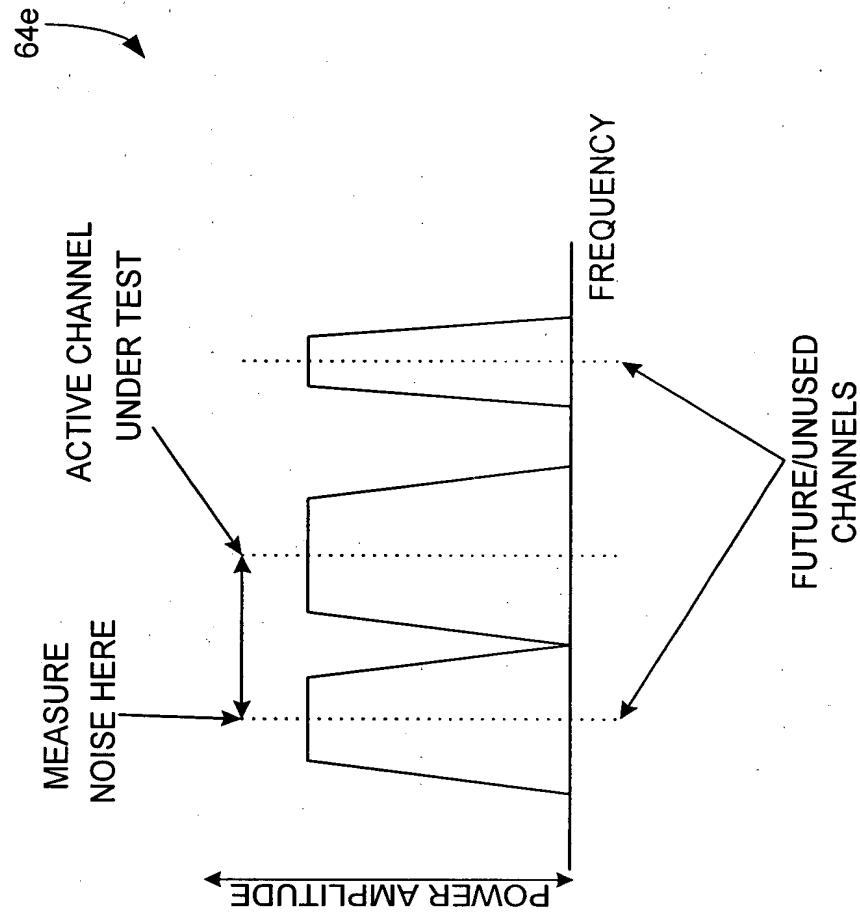
**FIG. 3J**

## CHANNEL POWER TEST (TDMA BURSTS)



**FIG. 3K**

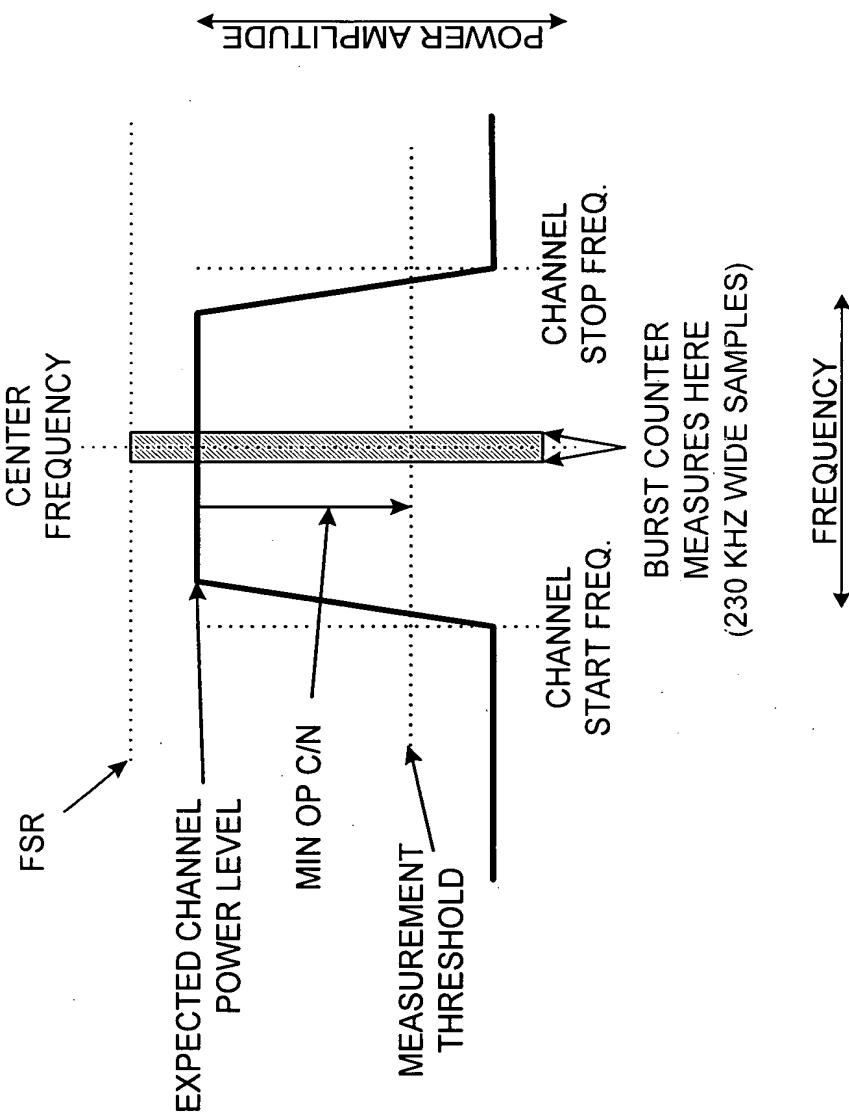
## C/N TEST (CHANNEL)



**FIG. 3L**

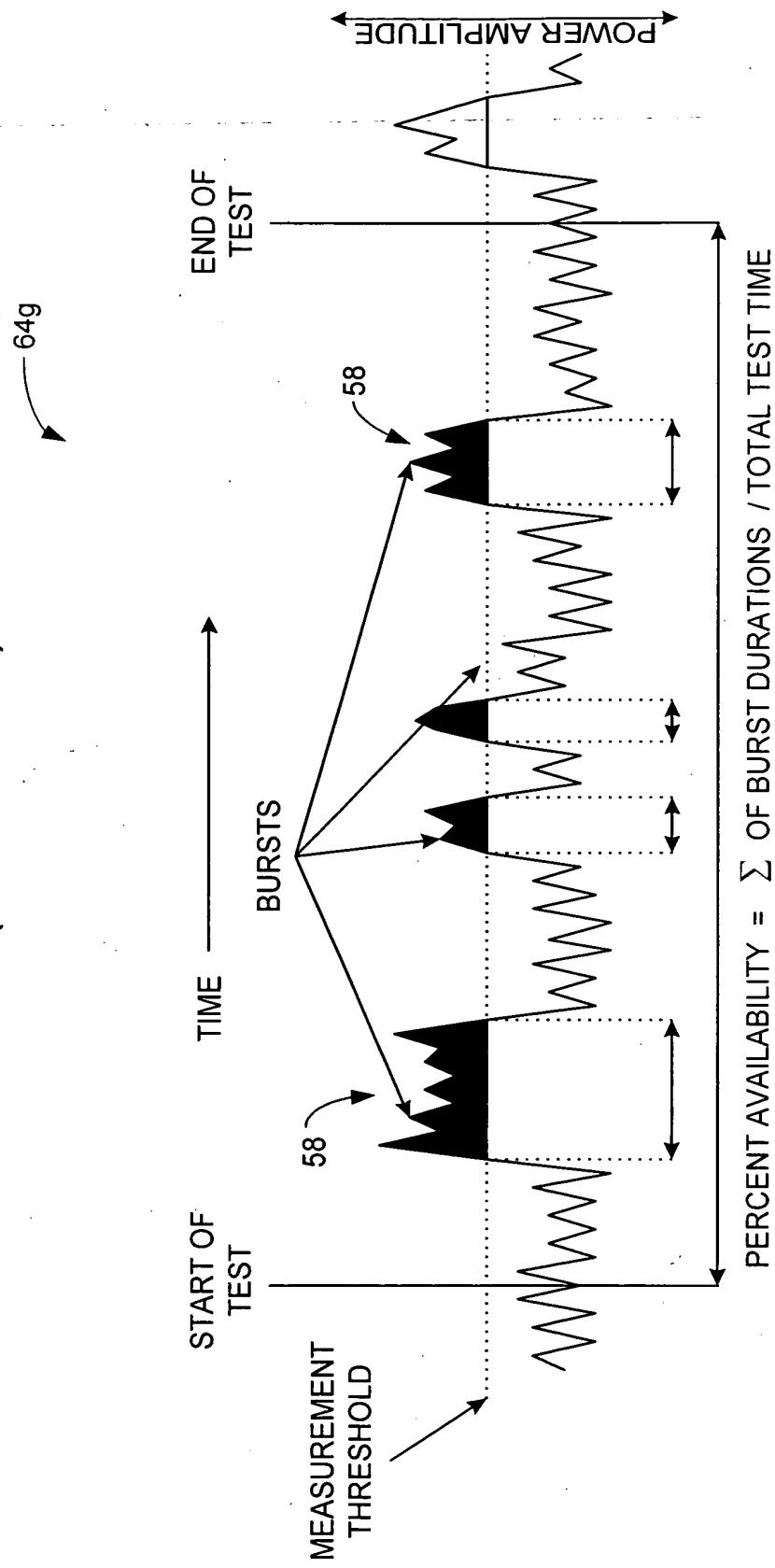
## BURST COUNTER TEST (CHANNEL)

64f



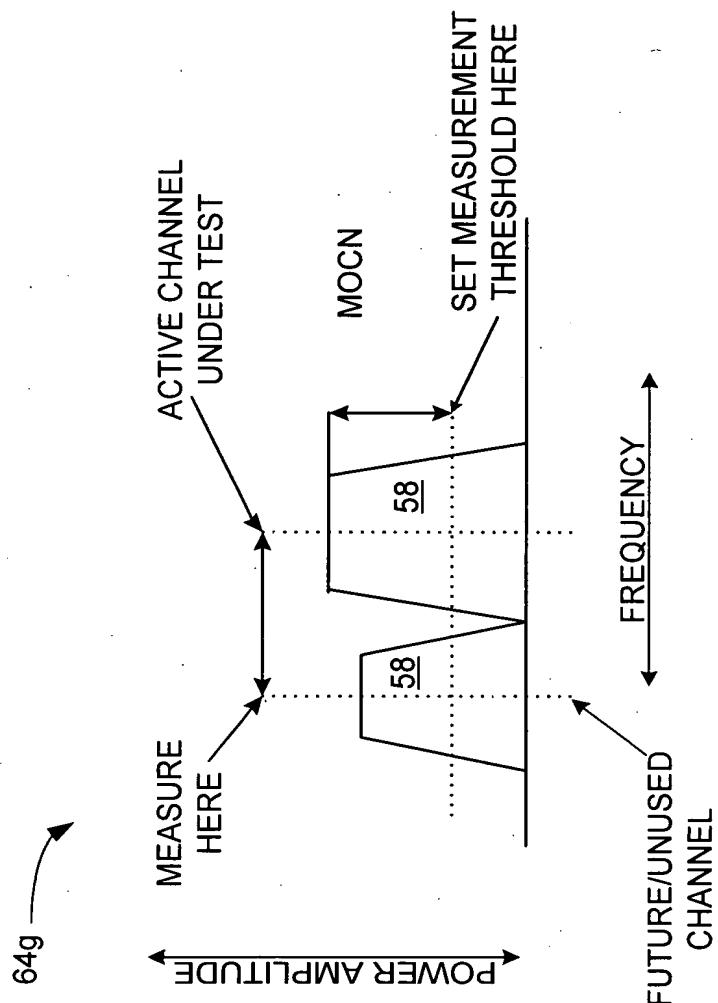
**FIG. 3M**

## PERCENT AVAILABILITY TEST (CHANNEL)



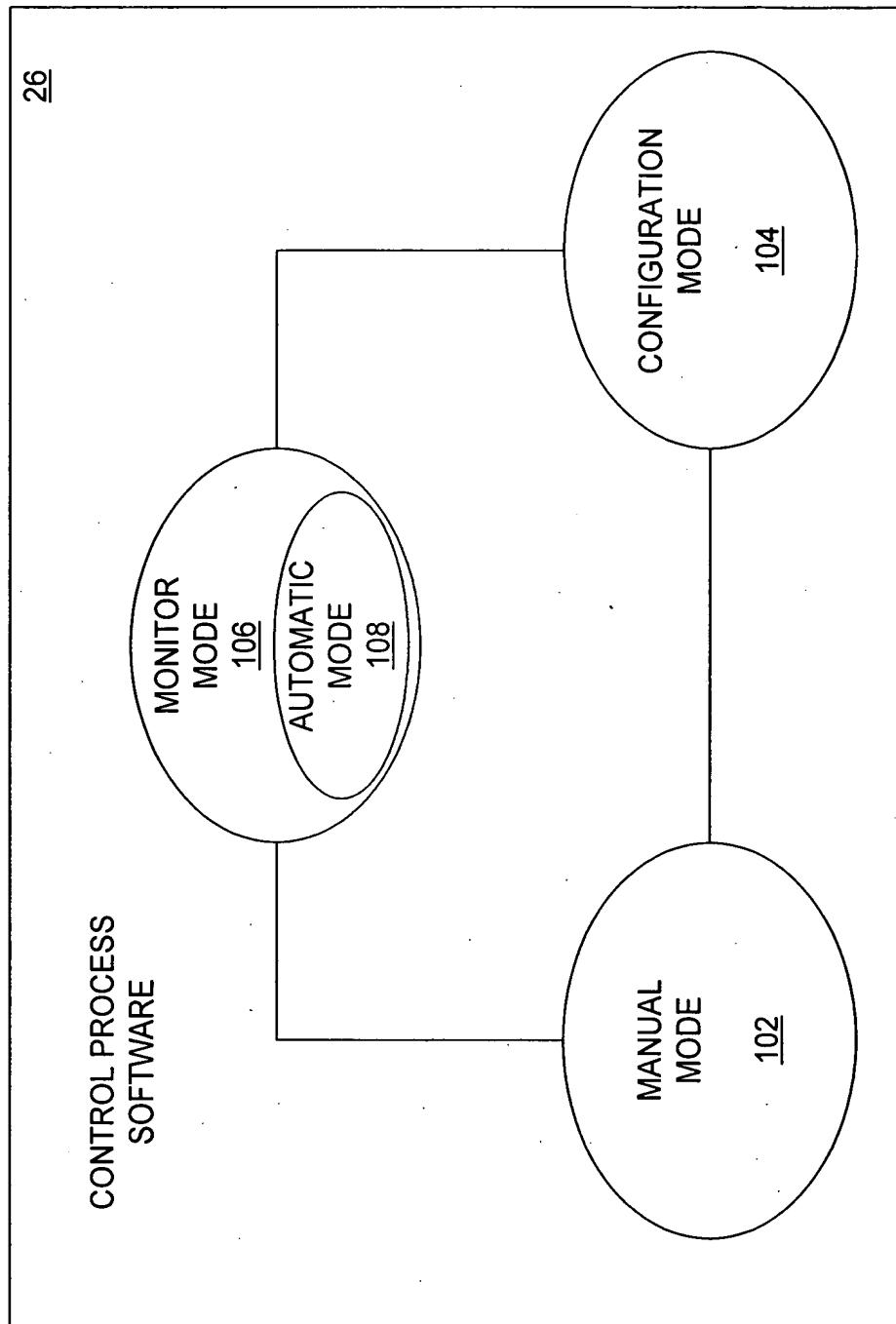
**FIG. 3N**

## PERCENT AVAILABILITY TEST (ACTIVE CHANNELS)



**FIG. 30**

**FIG. 4**

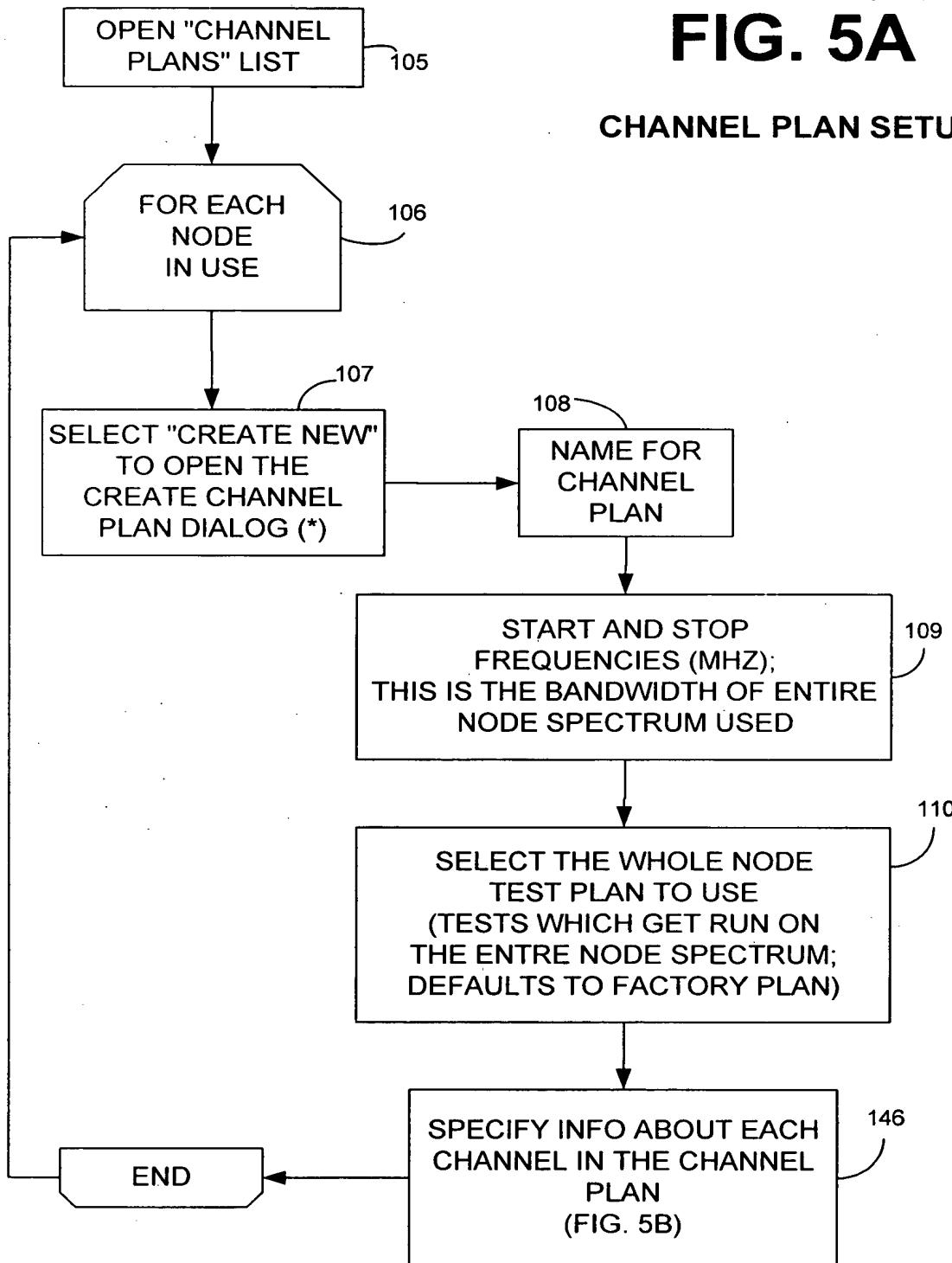


# FIG. 5A

## CHANNEL PLAN SETUP

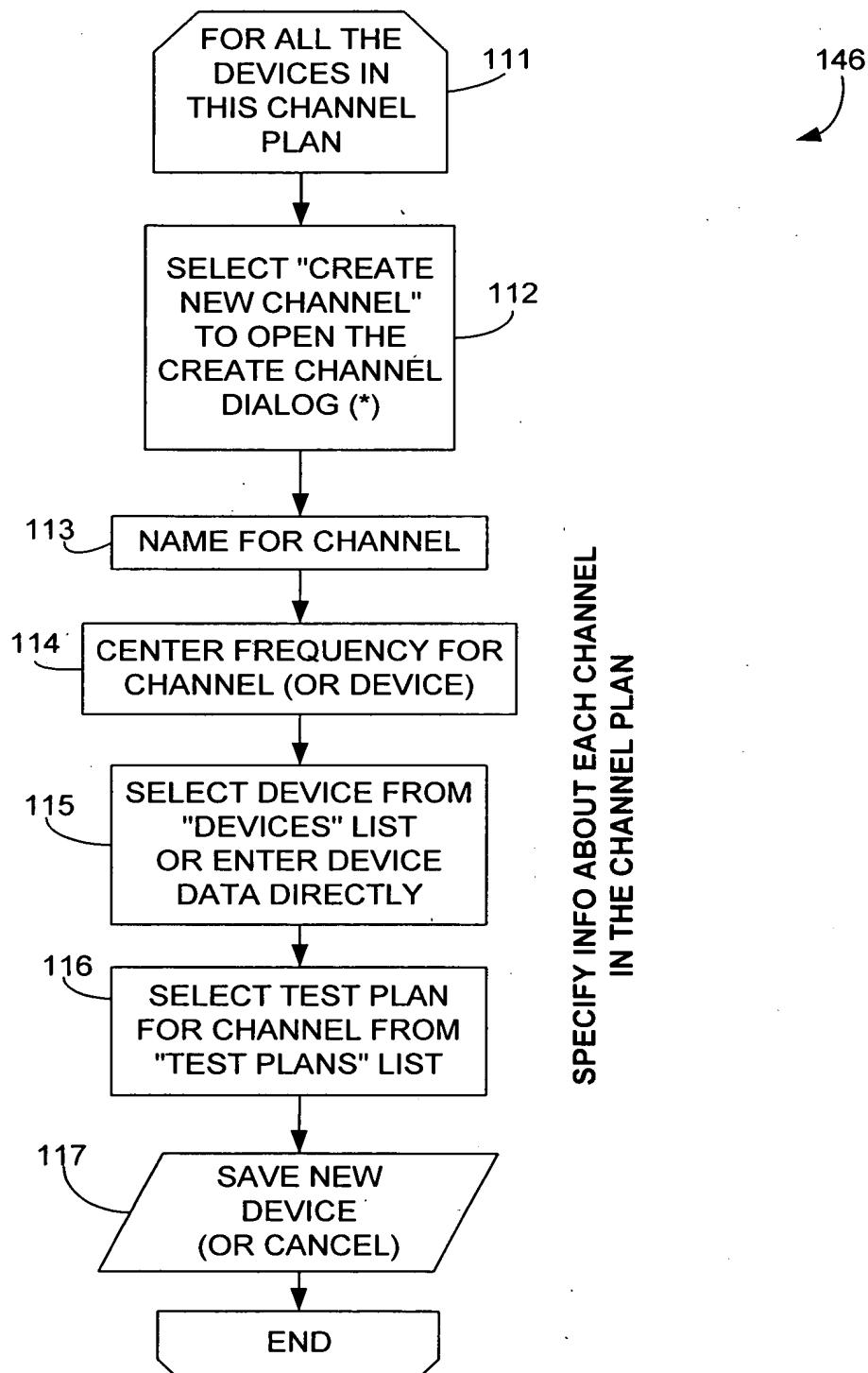
ROUTINE 5A

SPECIFY GENERAL INFO ABOUT CHANNEL PLAN



# FIG. 5B

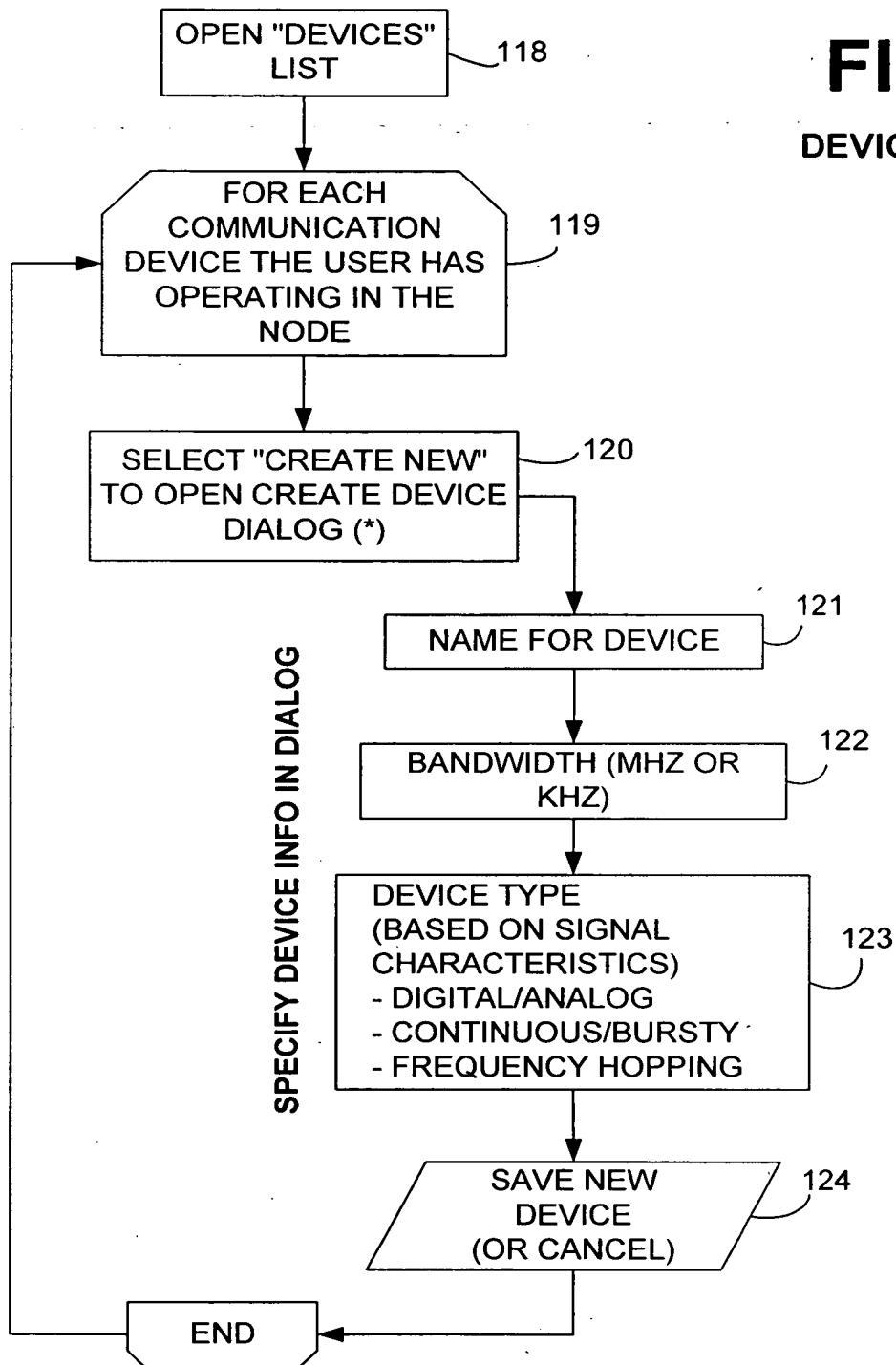
## CHANNEL PLAN SETUP (CONTINUED)



# FIG. 6

## DEVICE SETUP

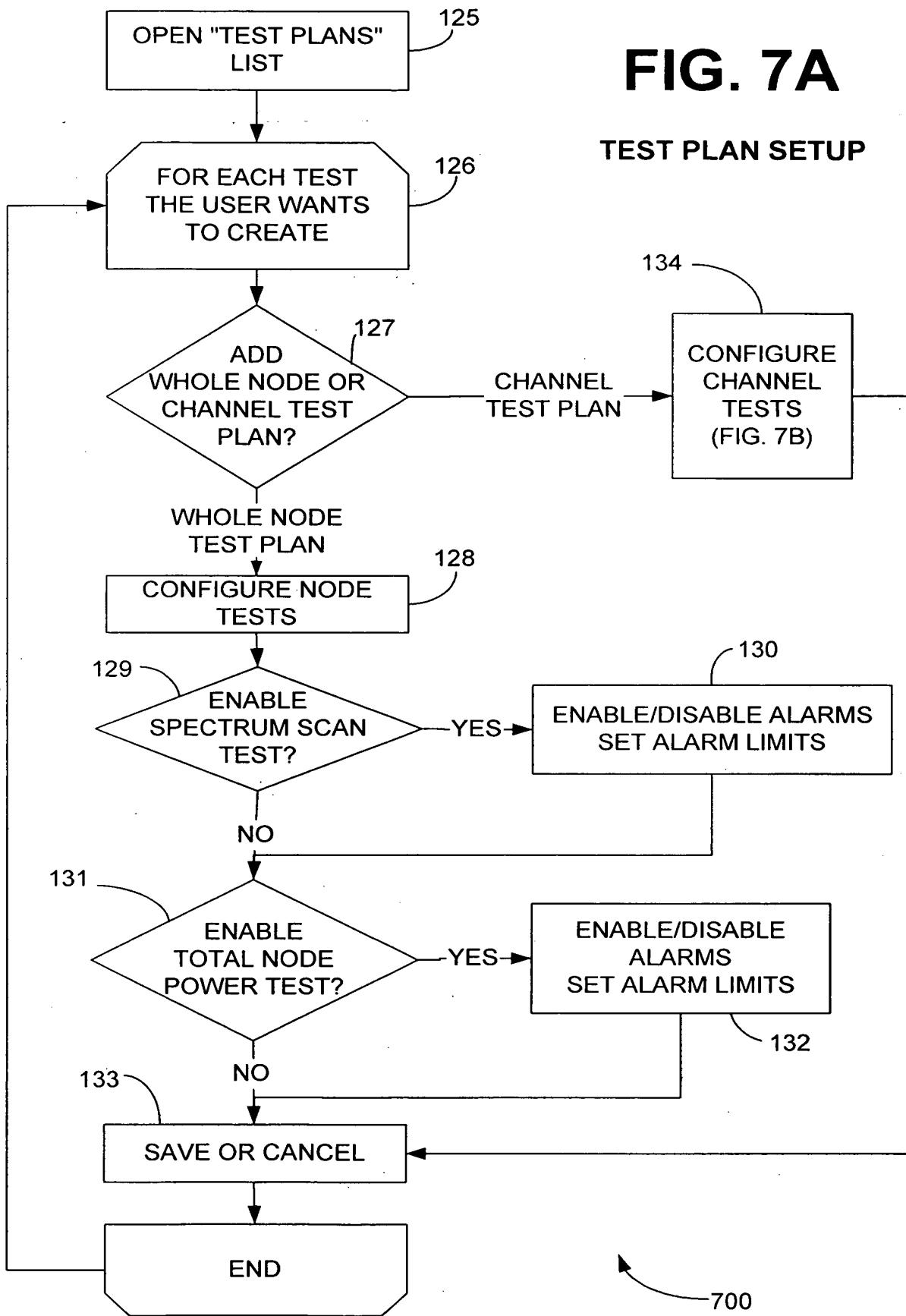
FIGURE 6 - DEVICE SETUP



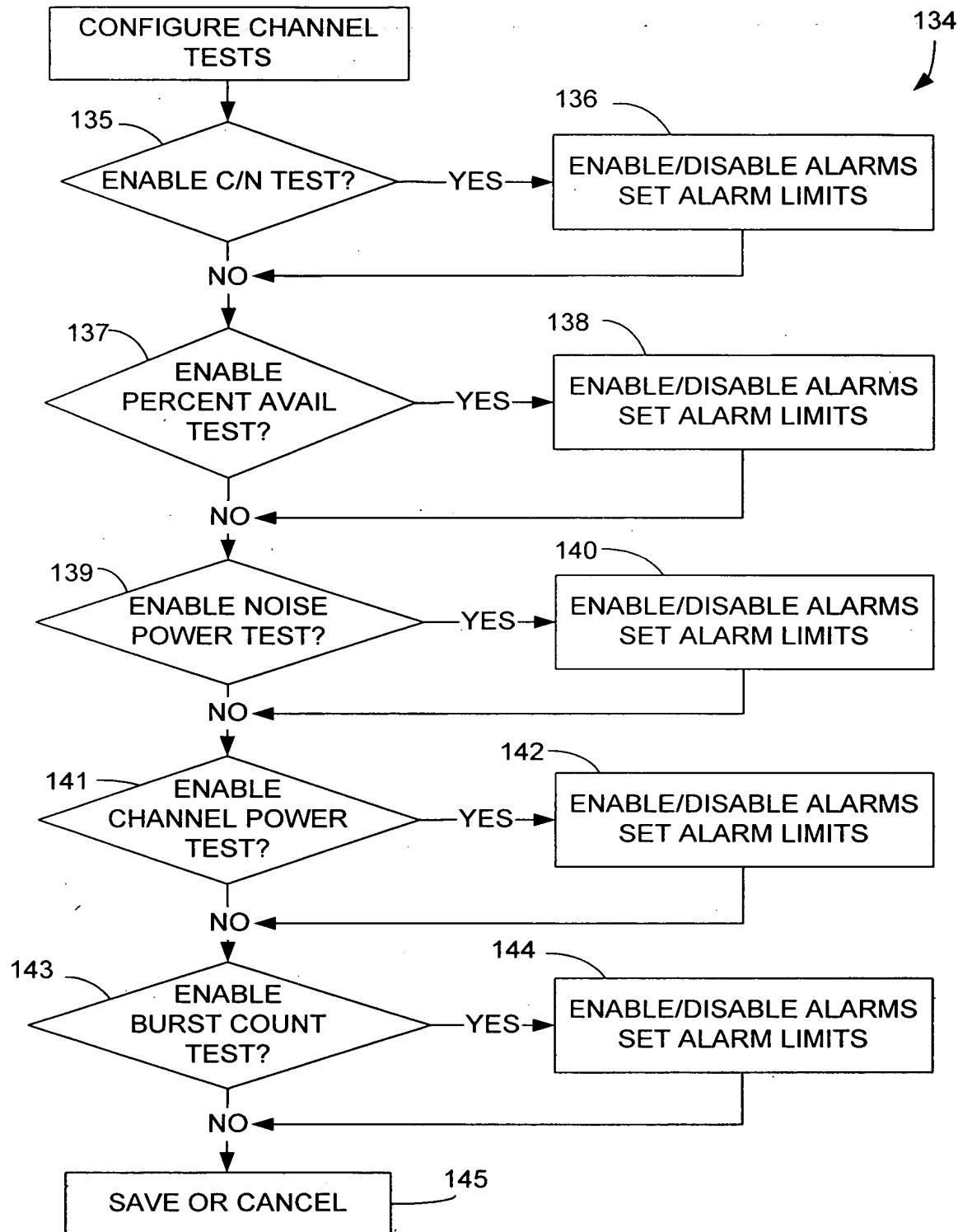
\* NOTE: DEVICE LIST DIALOG ALSO  
ALLOWS USER TO EDIT OR DELETE  
DEVICES.

**FIG. 7A**

**TEST PLAN SETUP**

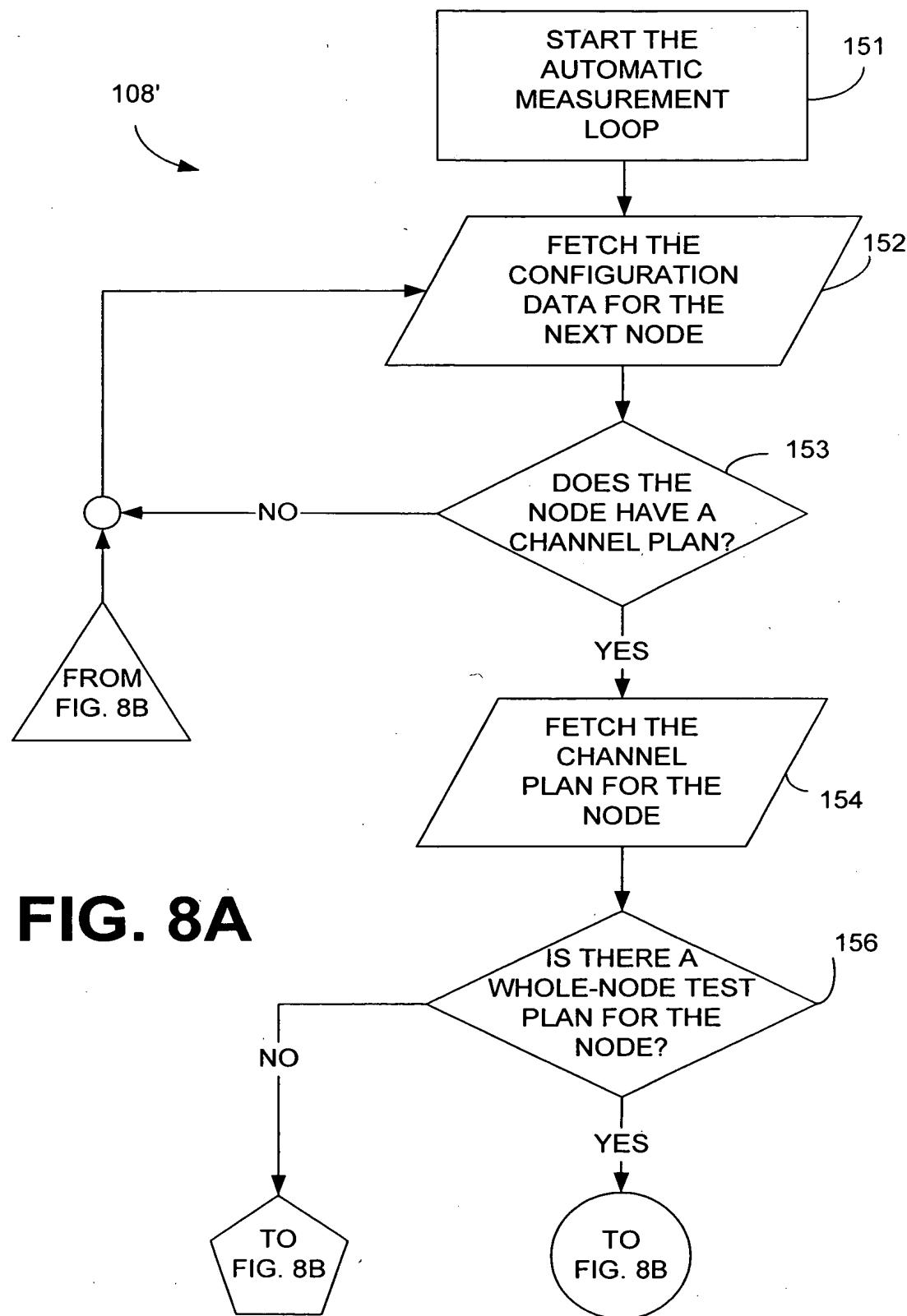


## TEST PLAN SETUP (CONTINUED)



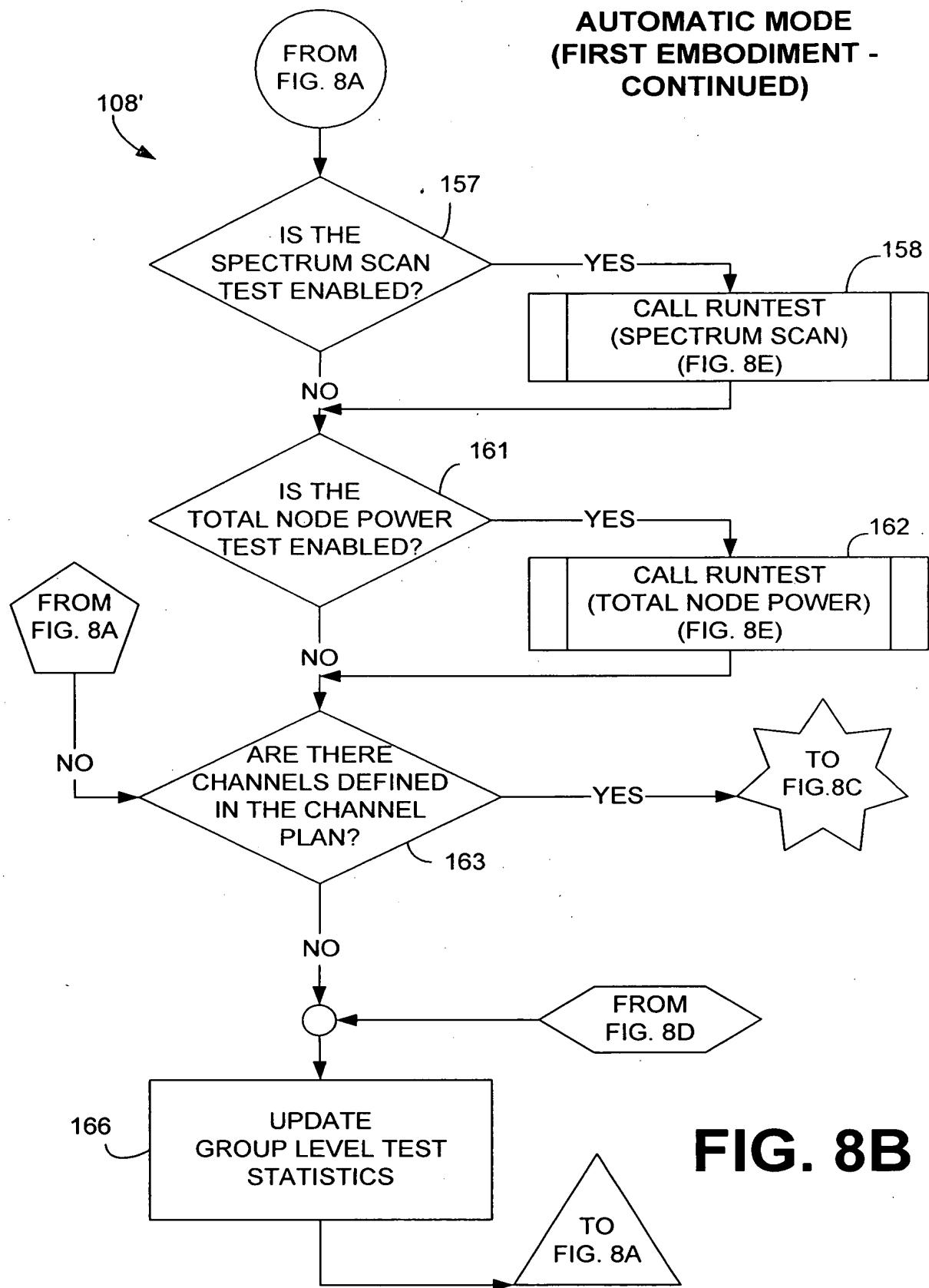
**FIG. 7B**

**AUTOMATIC MODE  
(FIRST EMBODIMENT; EMPLOYS ROUND ROBIN ALGORITHM)**



**FIG. 8A**

**AUTOMATIC MODE  
(FIRST EMBODIMENT -  
CONTINUED)**



**FIG. 8B**

**AUTOMATIC MODE  
(FIRST EMBODIMENT - CONTINUED)**

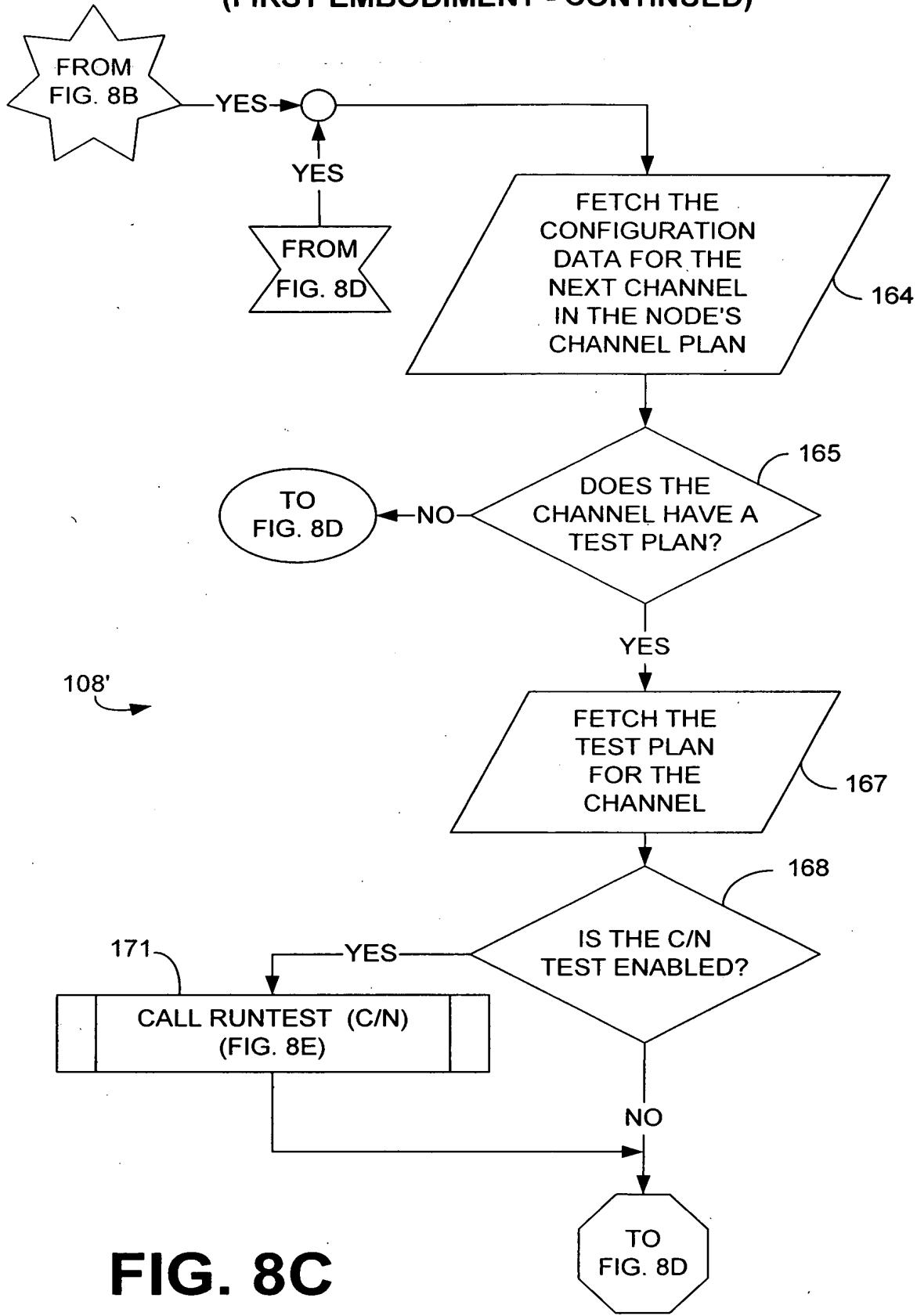
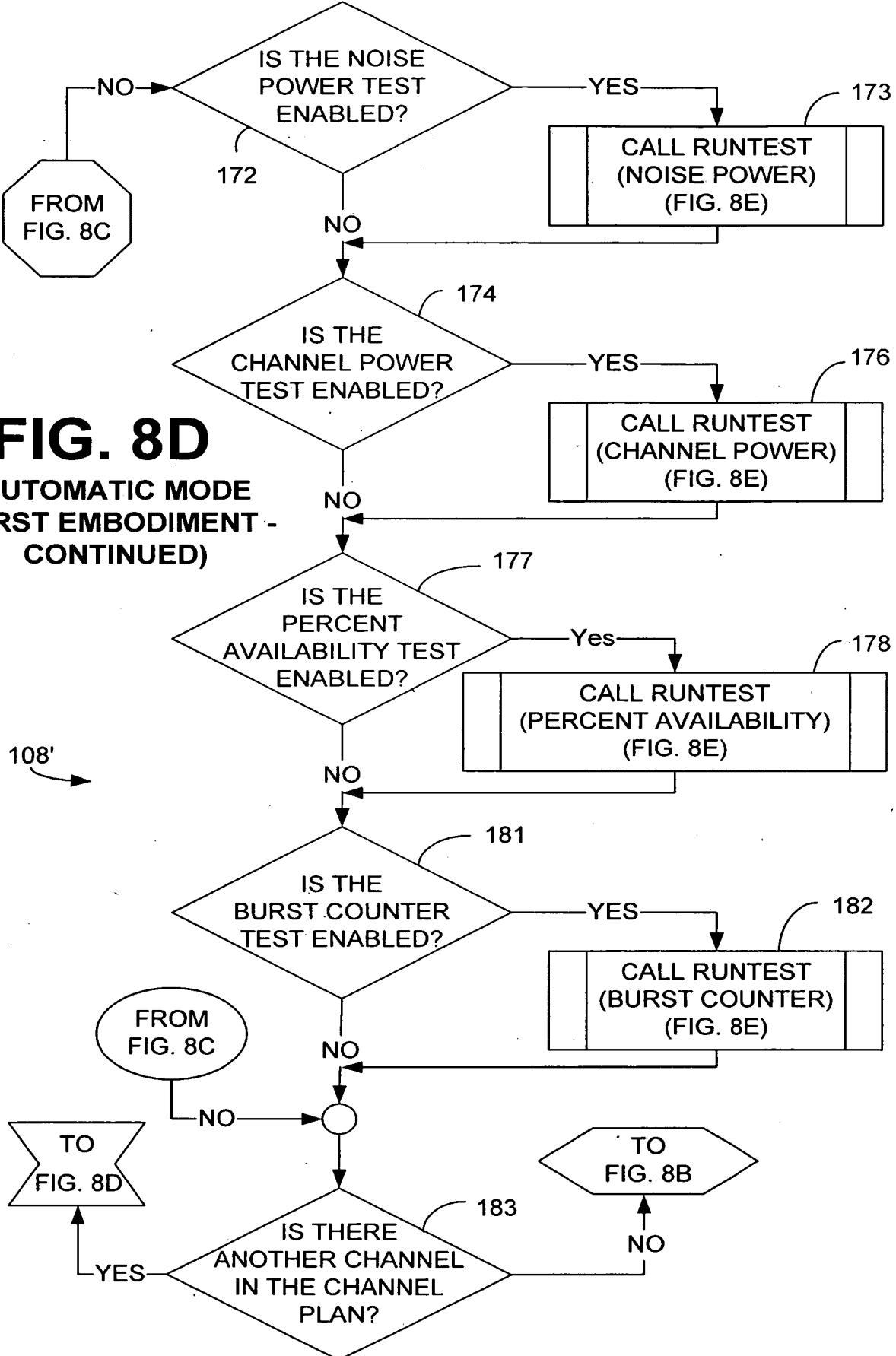
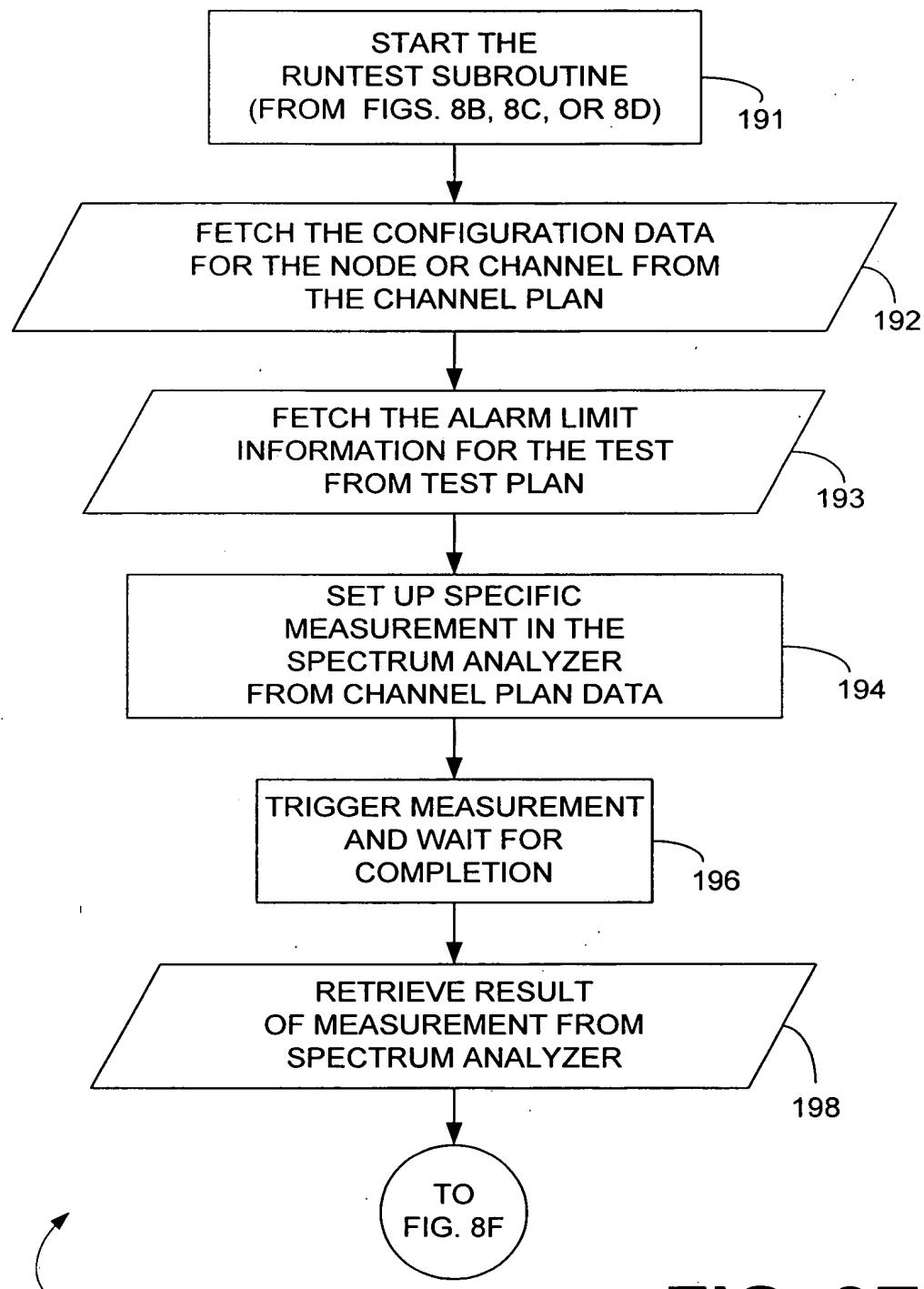


FIG. 8D  
AUTOMATIC MODE  
(FIRST EMBODIMENT -  
CONTINUED)



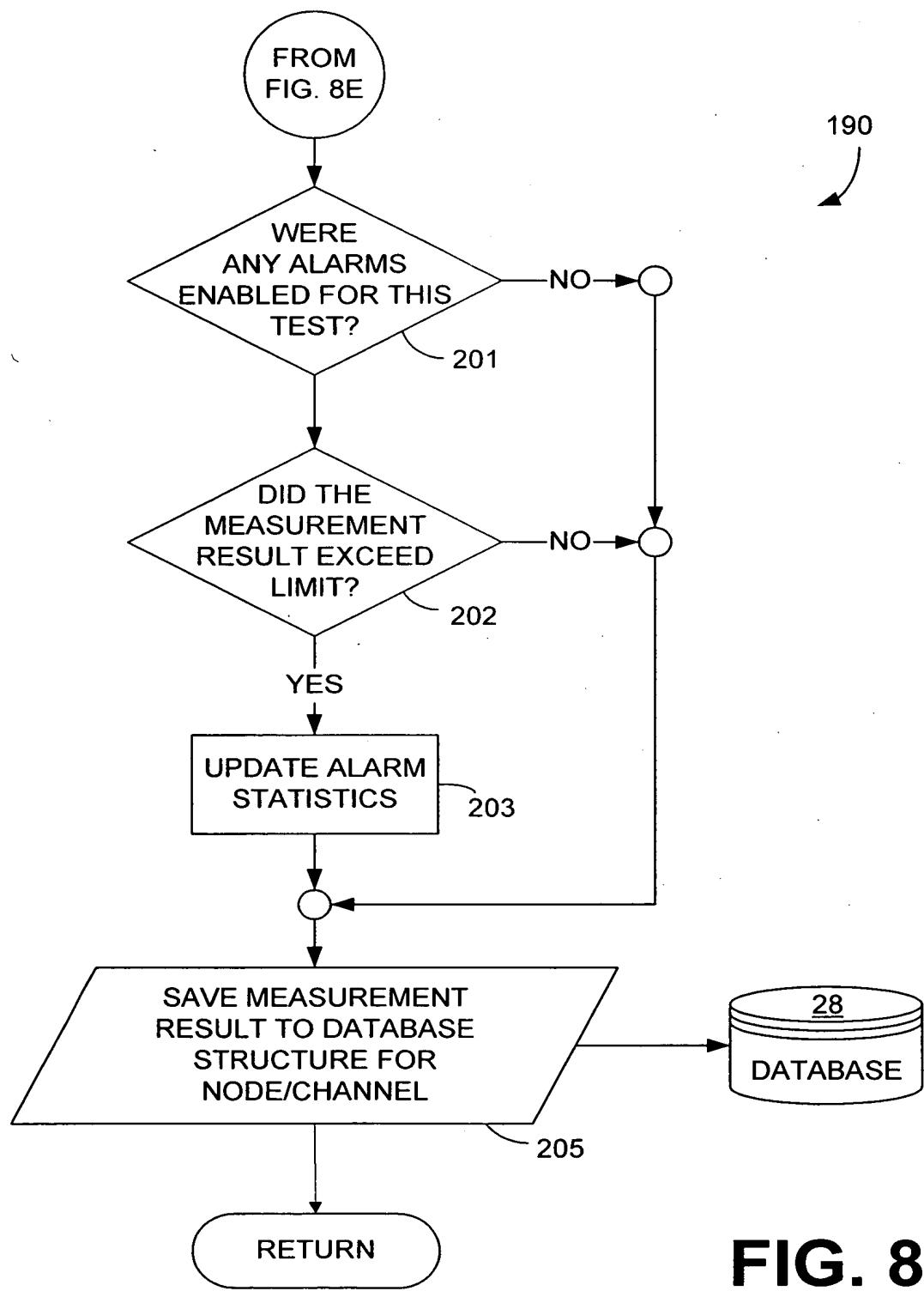
**AUTOMATIC MODE  
(FIRST EMBODIMENT - CONTINUED)**

**RUNTEST SUBROUTINE**



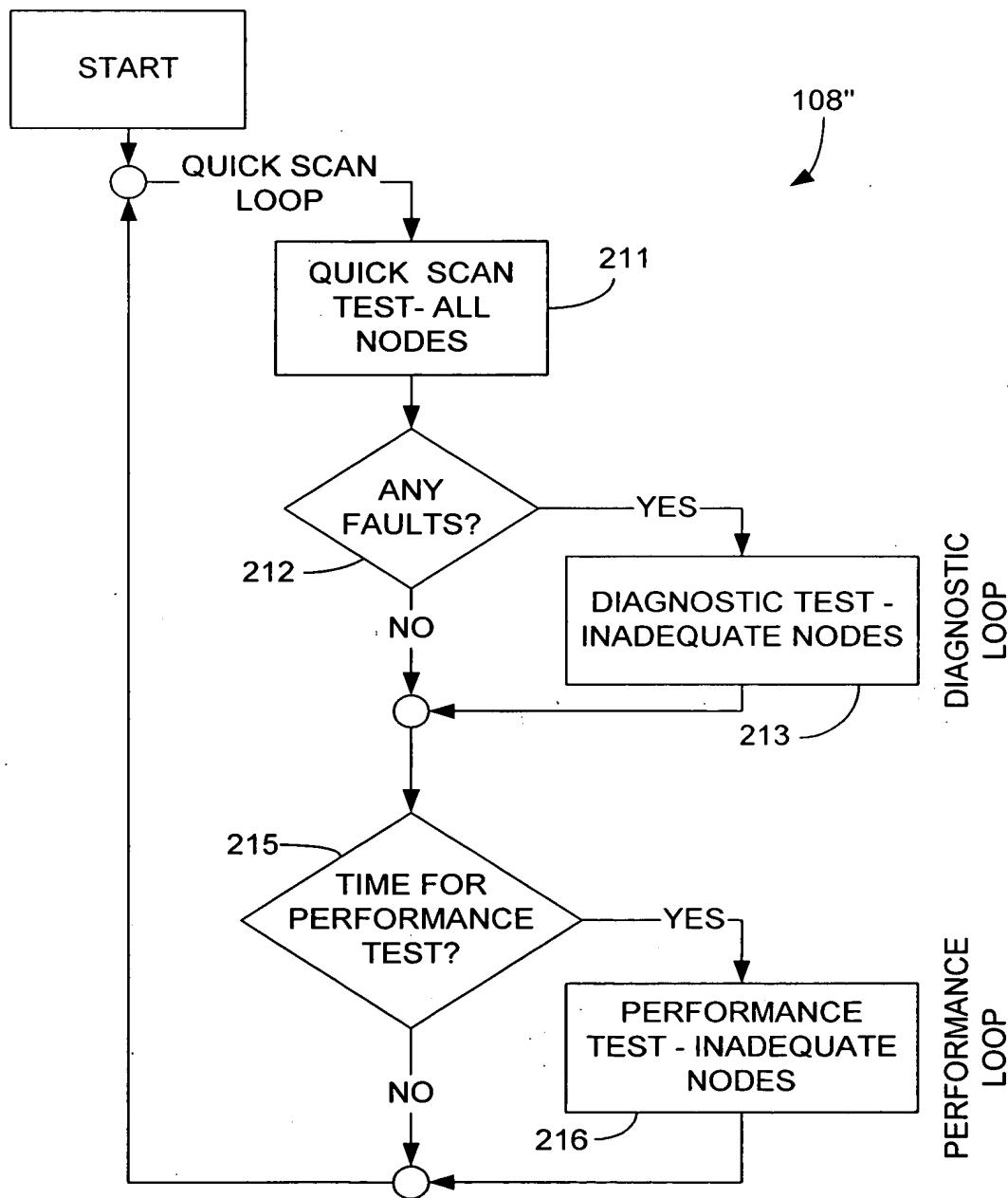
**FIG. 8E**

**AUTOMATIC MODE  
(FIRST EMBODIMENT - CONTINUED)**

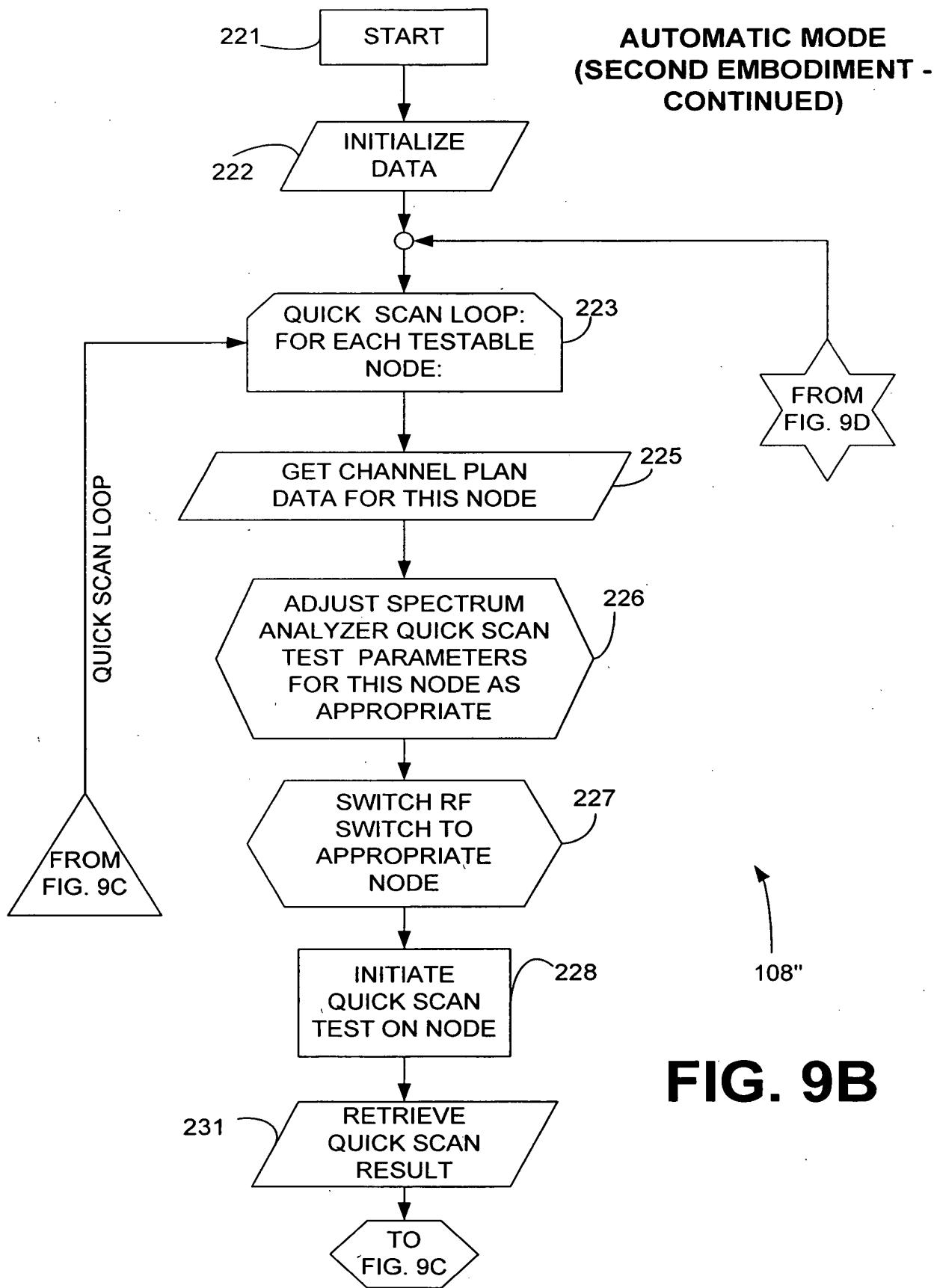


**FIG. 8F**

**AUTOMATIC MODE  
(SECOND EMBODIMENT; EMPLOYS SMART  
SCANNING ALGORITHM)**



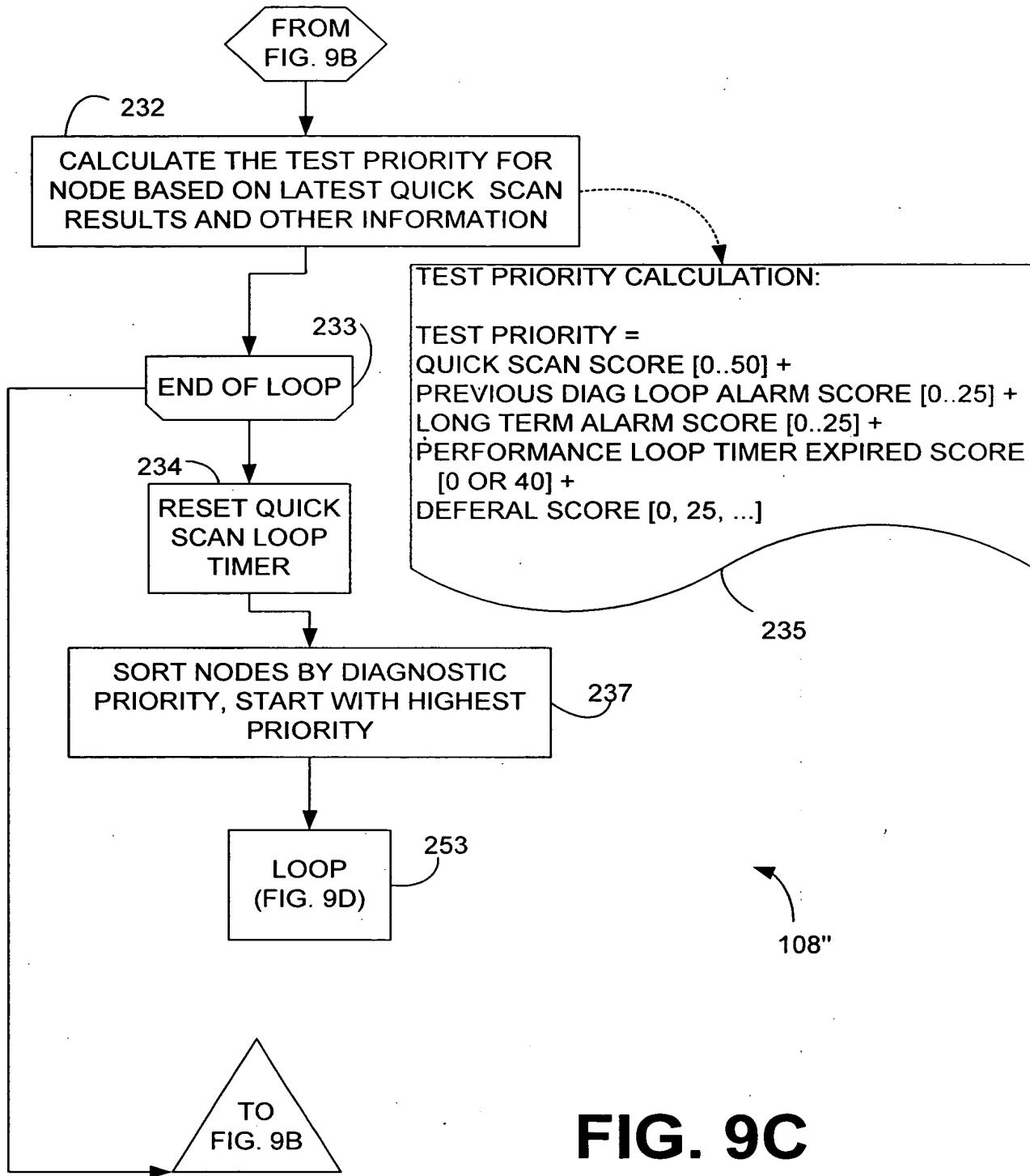
**FIG. 9A**



**FIG. 9B**

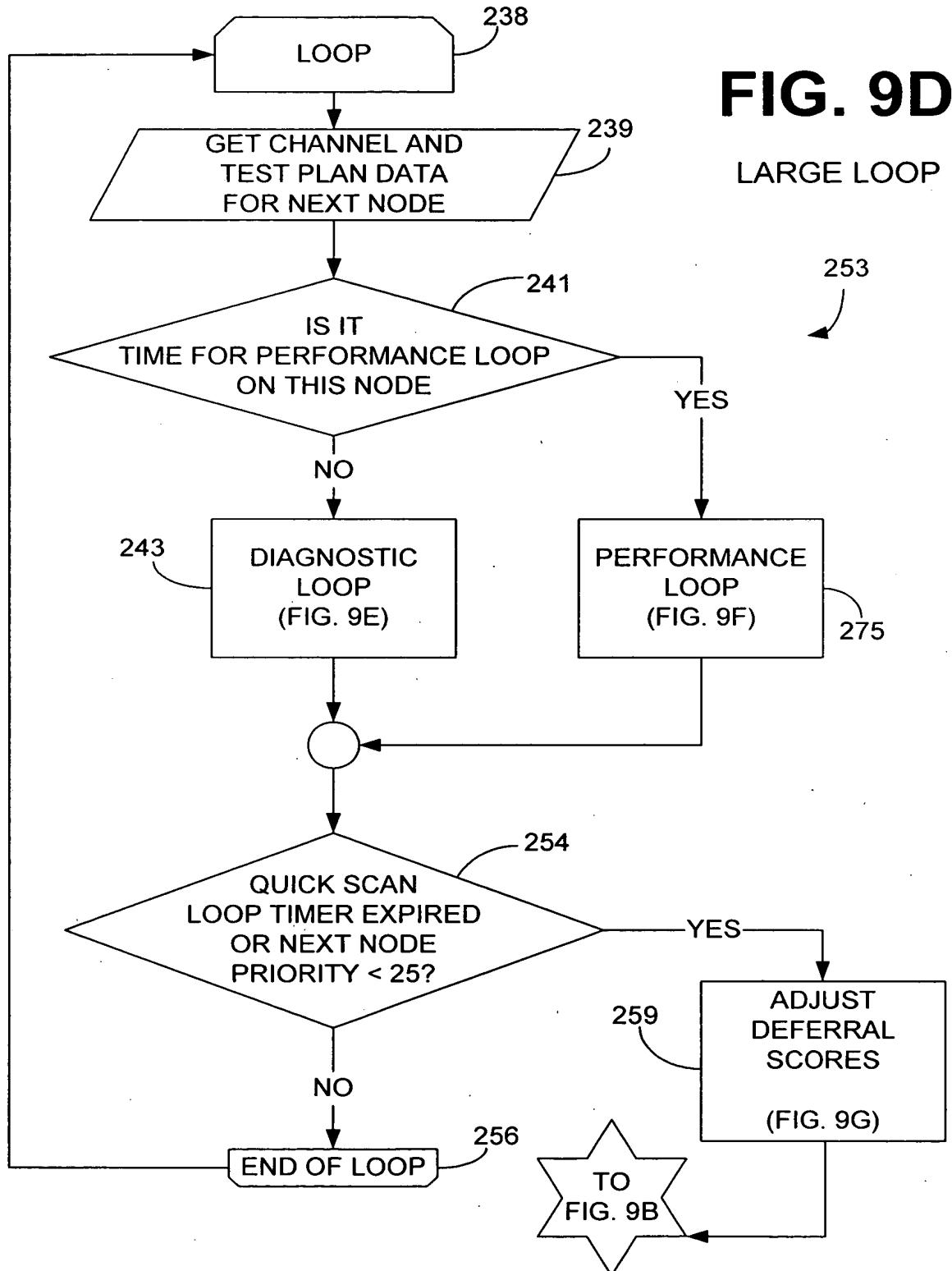
**AUTOMATIC MODE  
(SECOND EMBODIMENT - CONTINUED)**

FIGURE 9C



**FIG. 9C**

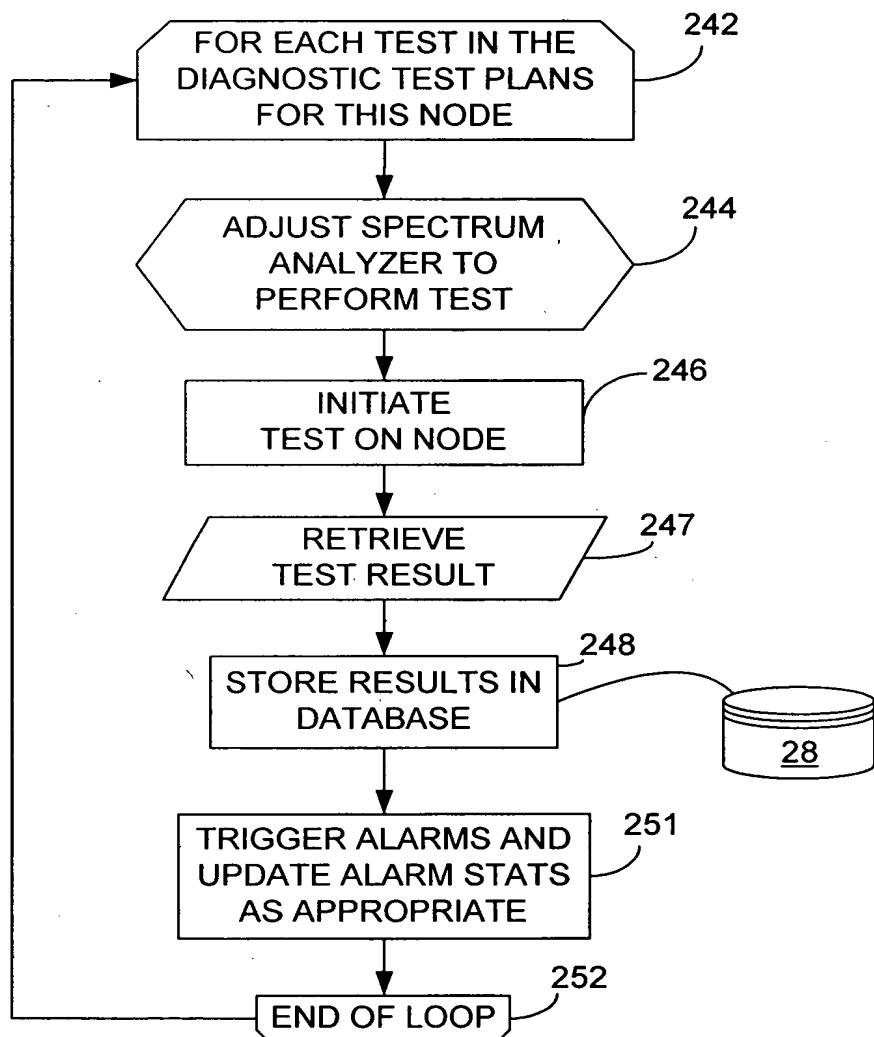
**AUTOMATIC MODE  
(SECOND EMBODIMENT - CONTINUED)**



**AUTOMATIC MODE  
(SECOND EMBODIMENT - CONTINUED)**

**DIAGNOSTIC LOOP**

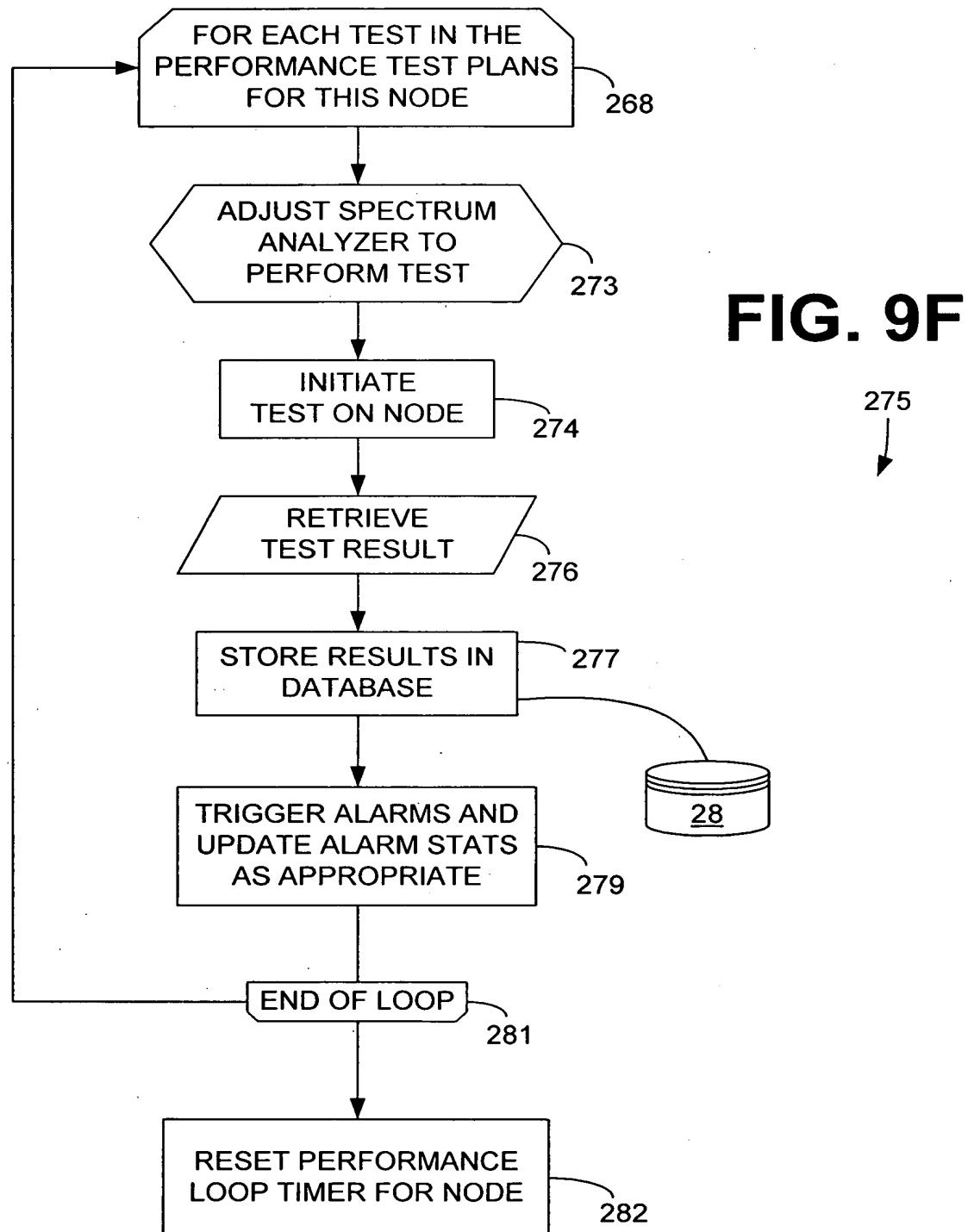
243



**FIG. 9E**

**AUTOMATIC MODE  
(SECOND EMBODIMENT - CONTINUED)**

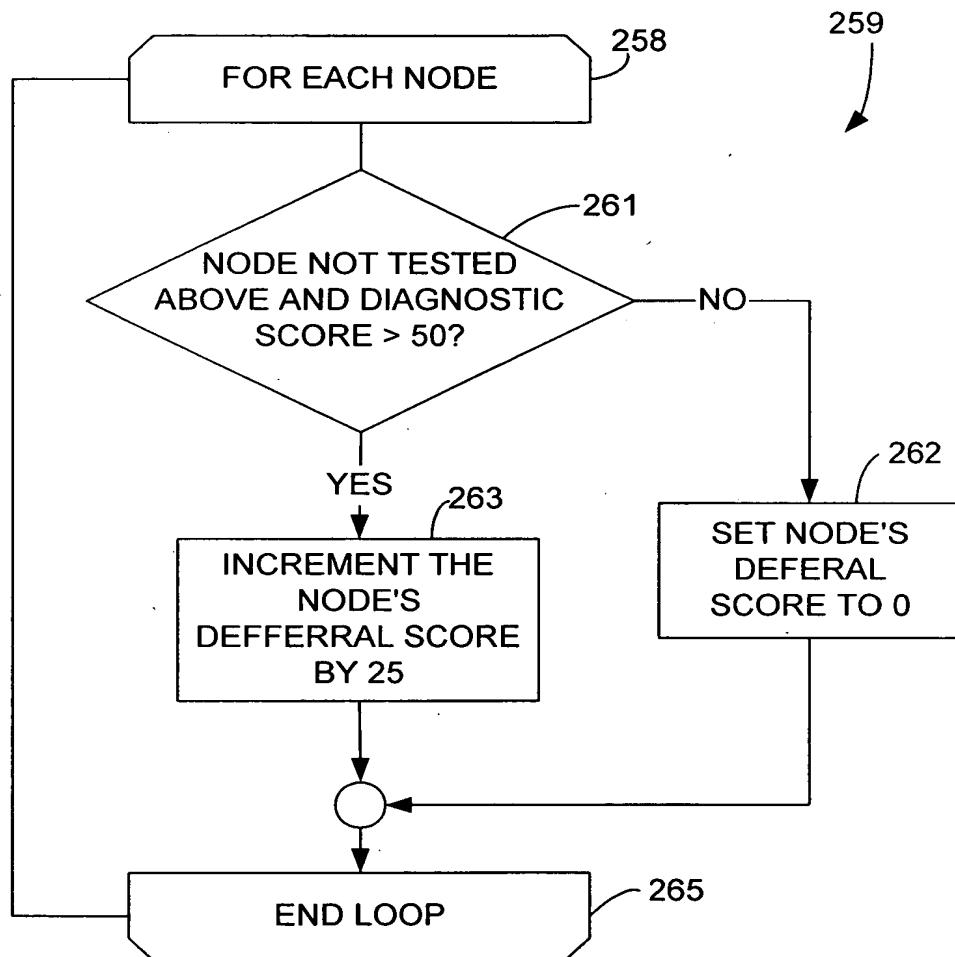
**PERFORMANCE LOOP**



**FIG. 9F**

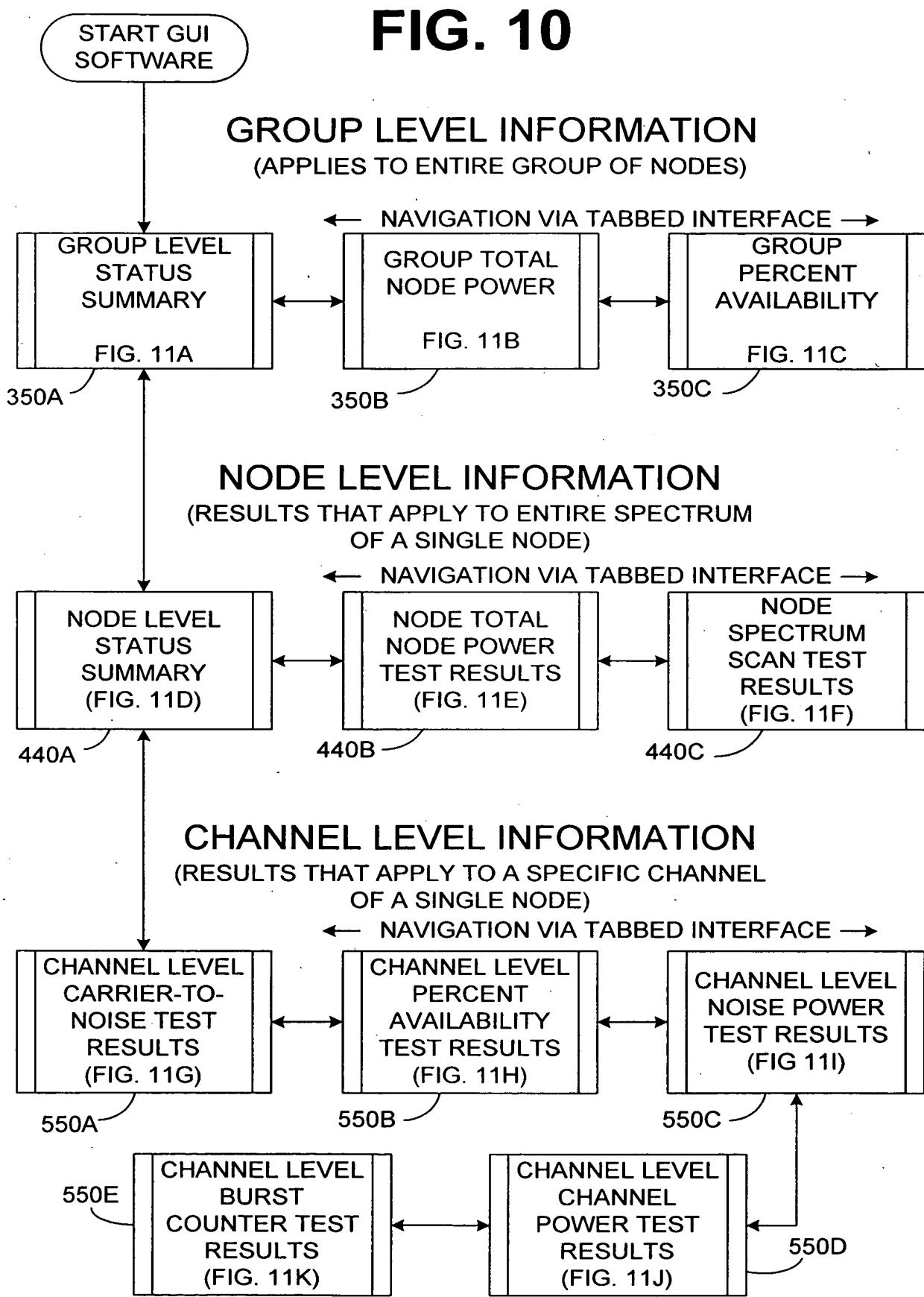
**AUTOMATIC MODE  
(SECOND EMBODIMENT - CONTINUED)**

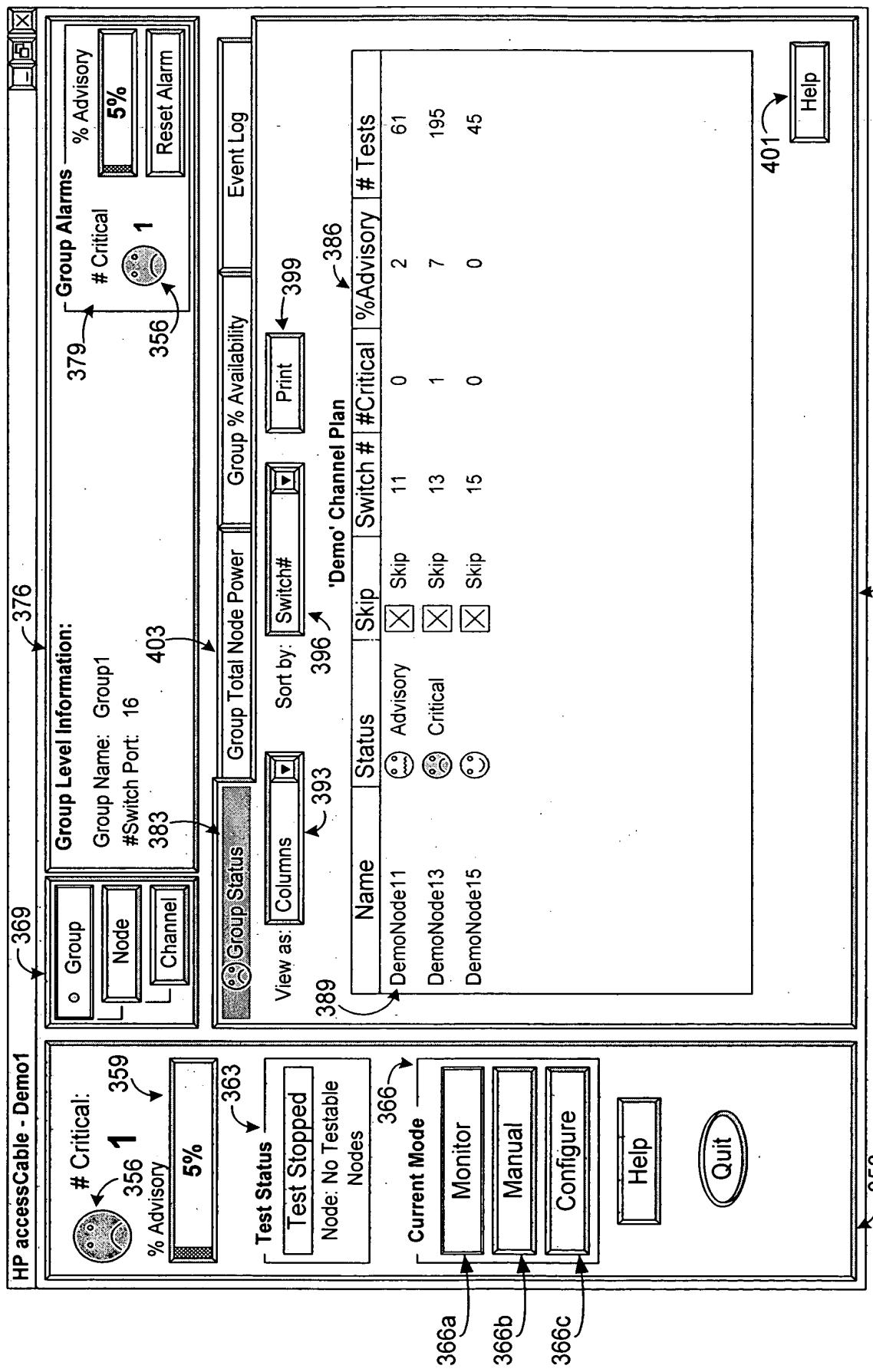
**ADJUST DEFERAL SCORES LOOP**



**FIG. 9G**

# FIG. 10





**FIG. 11A**

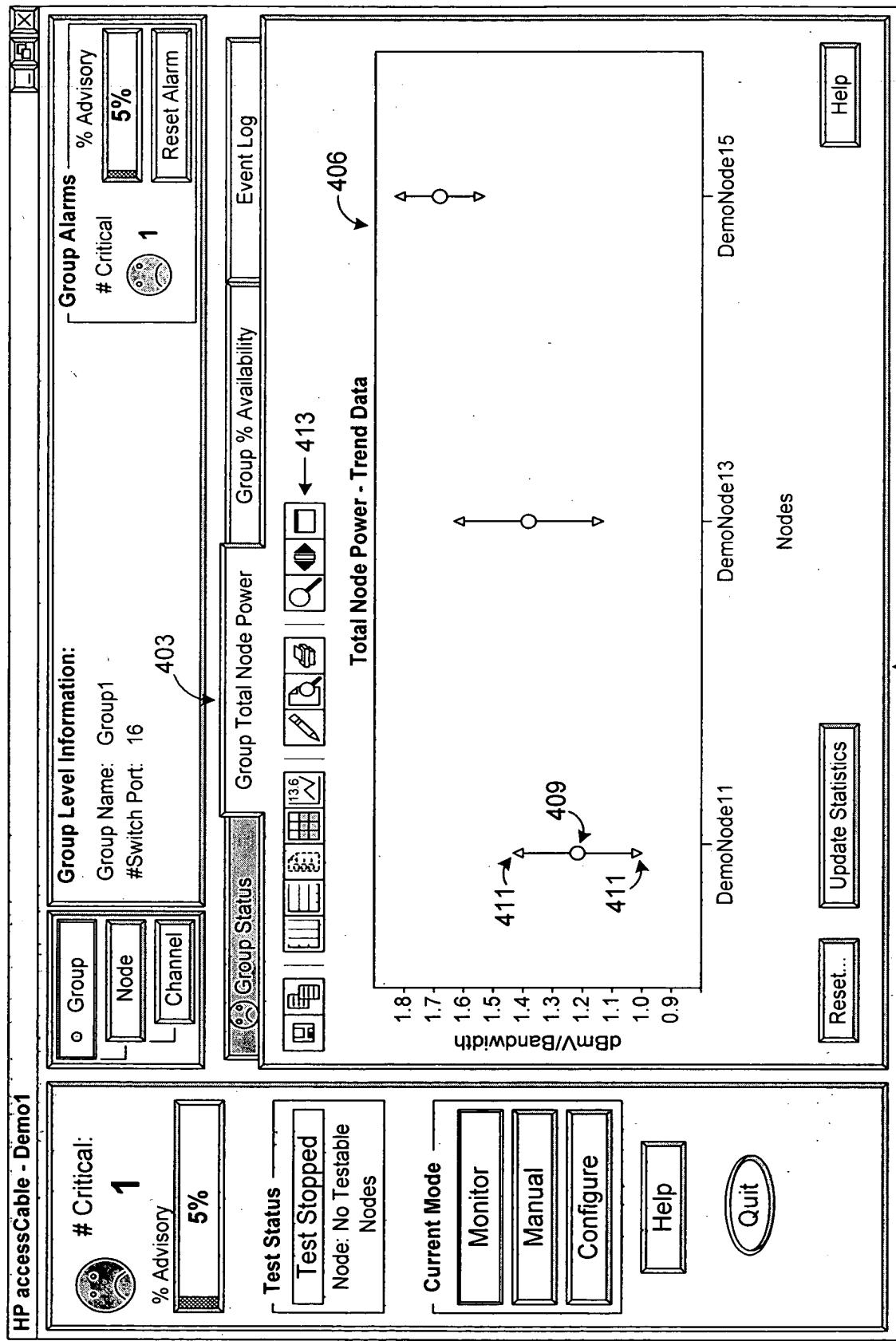


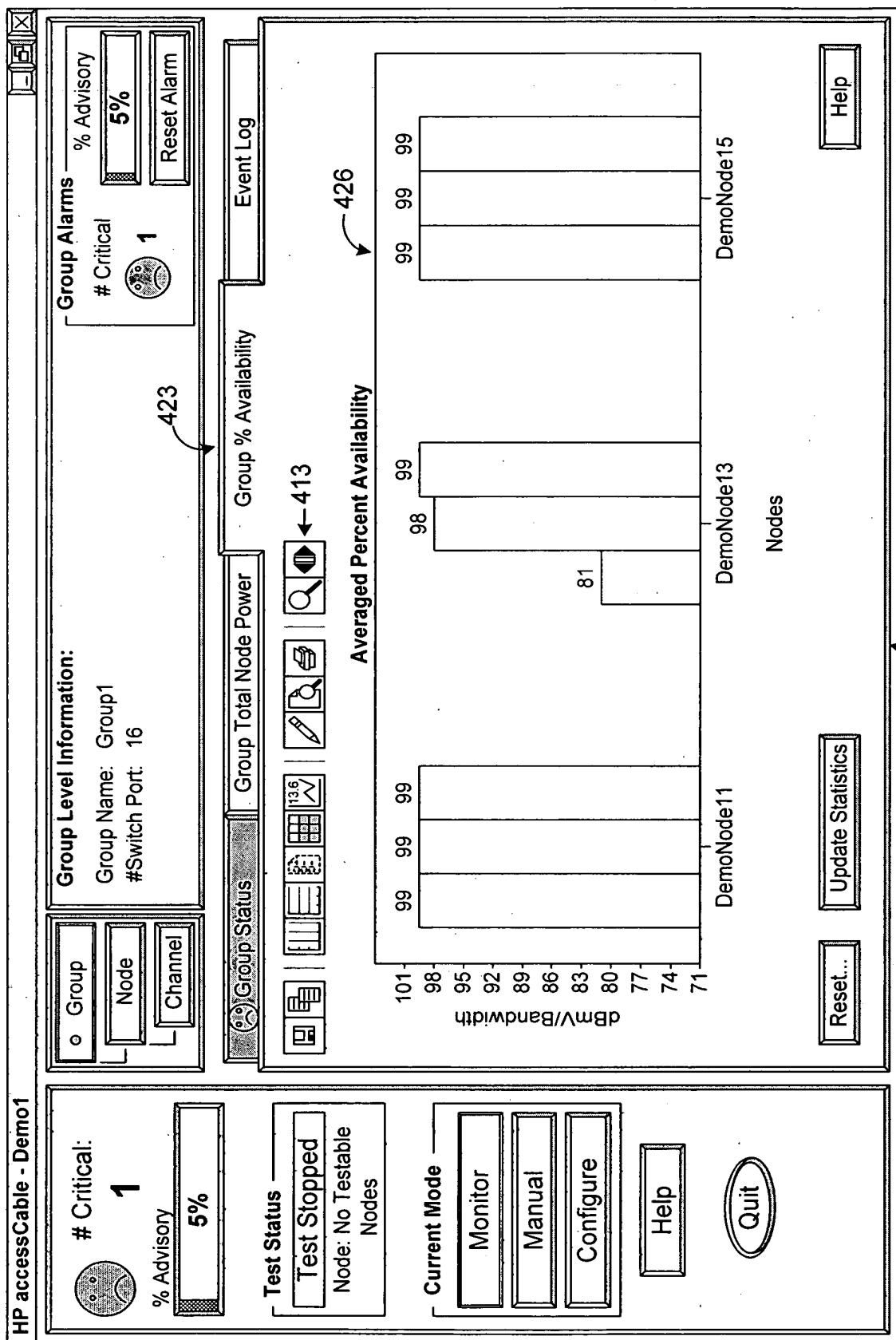
FIG. 11B

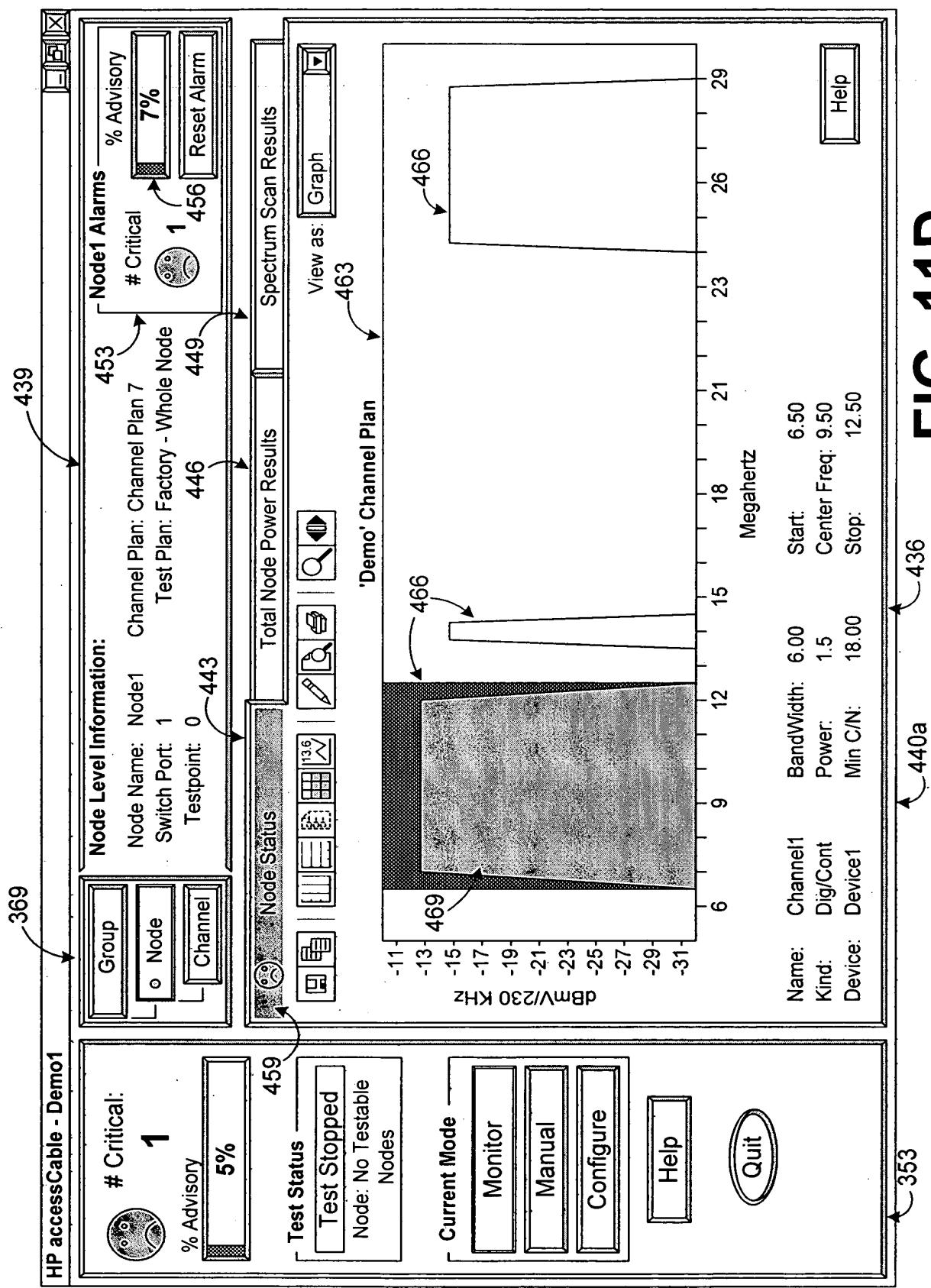
350b → 373

**FIG. 11C**

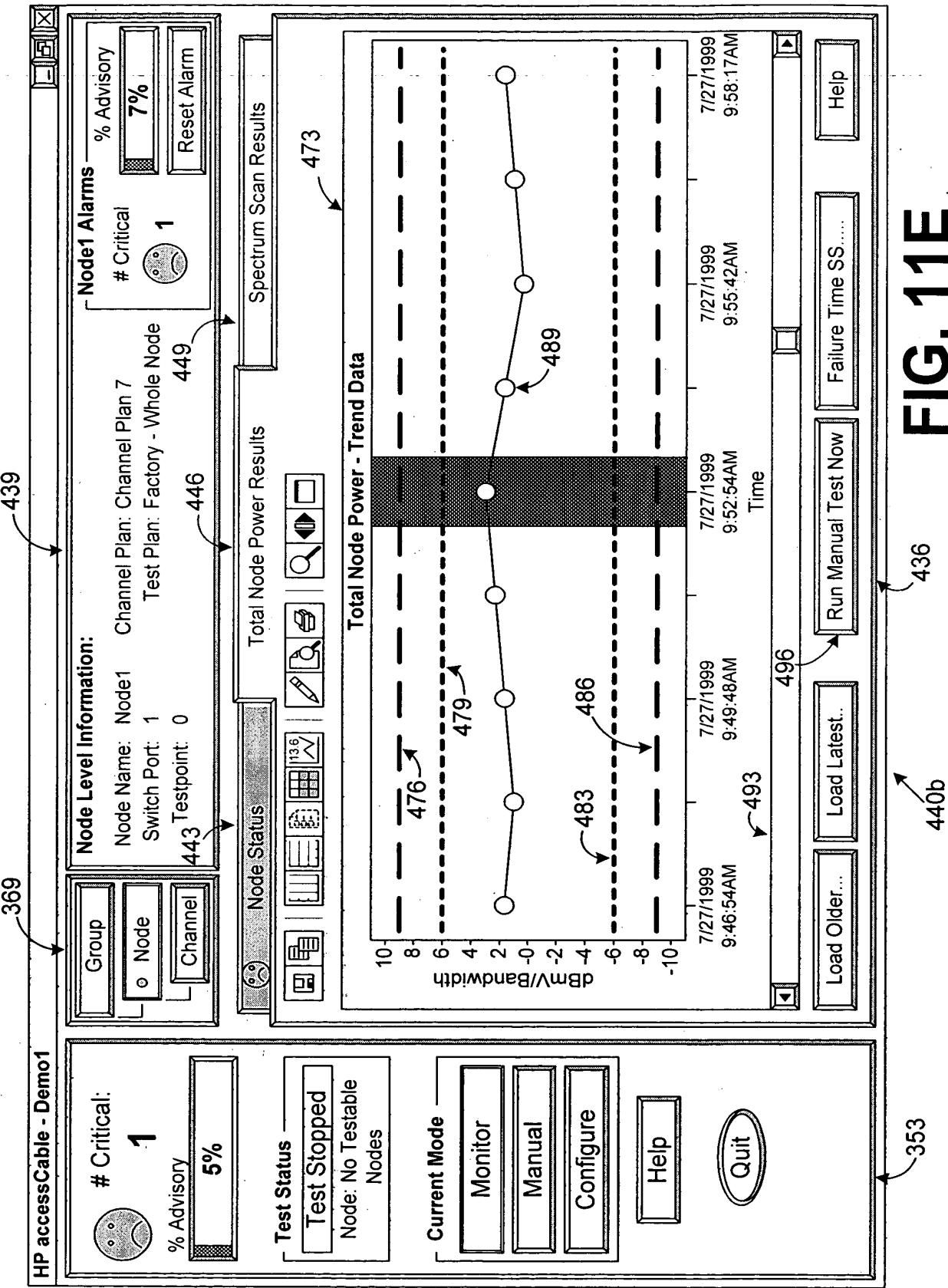
-373

-350C





## FIG. 11D



**FIG. 11E**

436  
440b

353

369

439

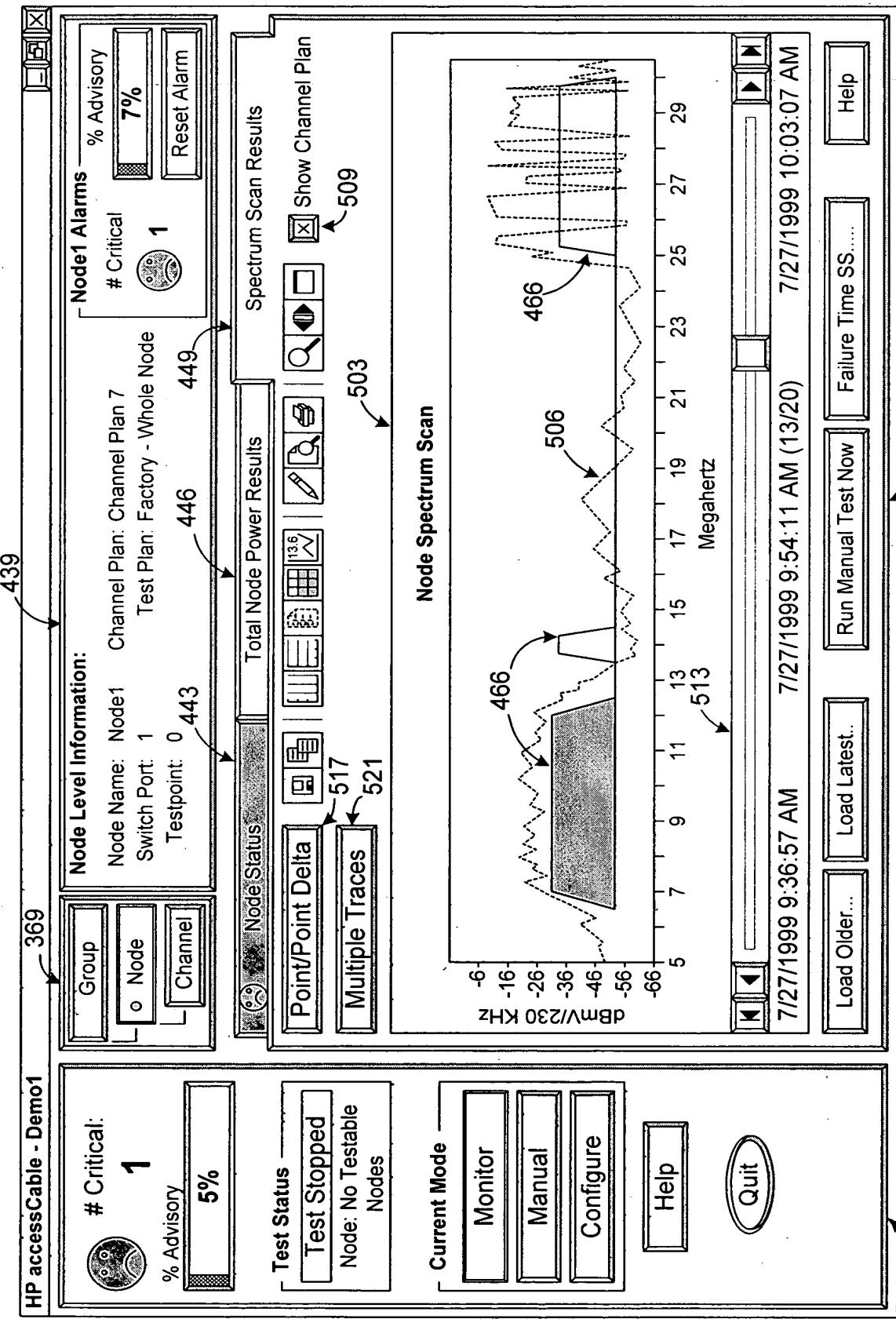
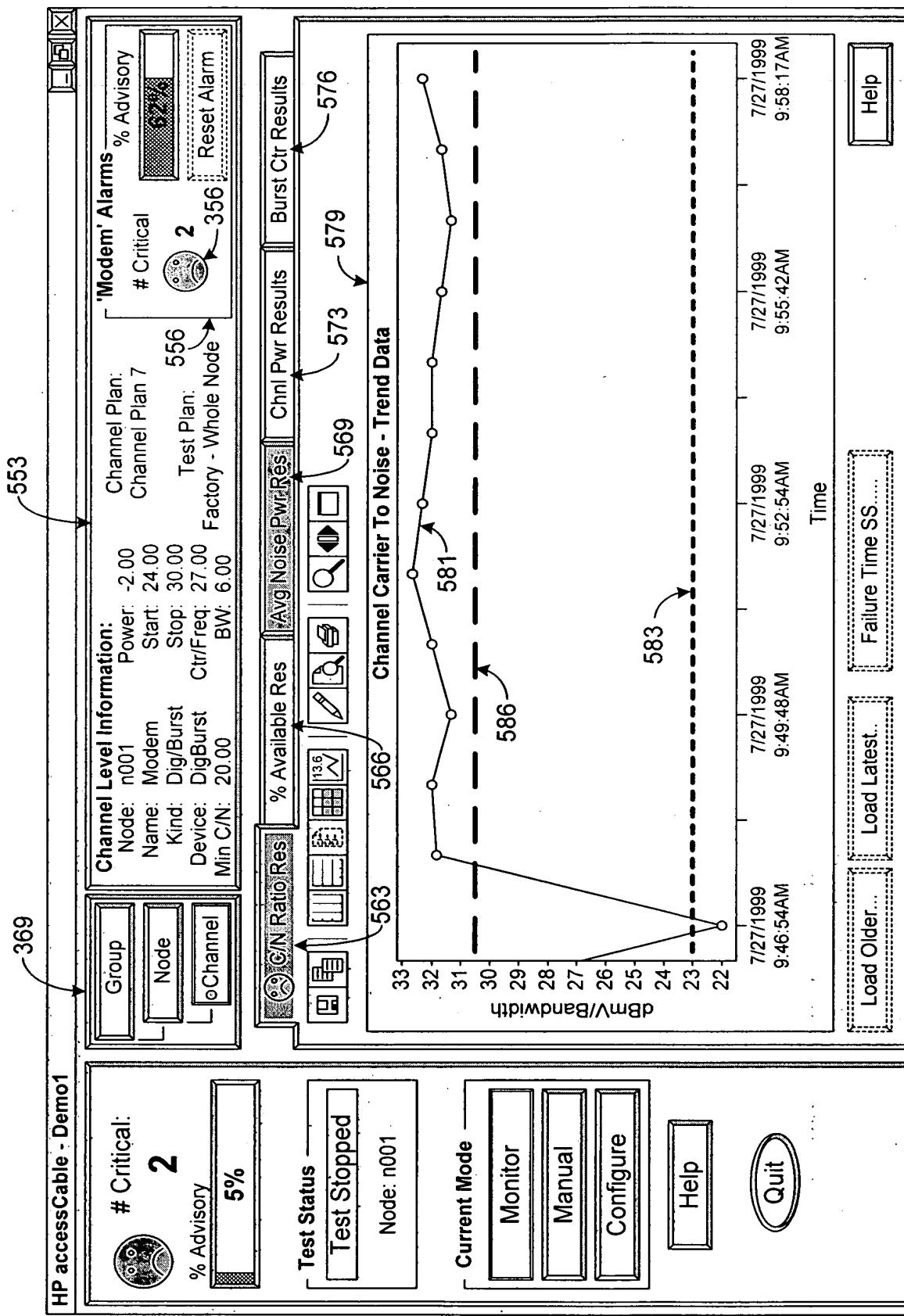


FIG. 11F

# FIG. 11G



# FIG. 11H

33

550a

HP accessCable - Demo1

# Critical: **2**

% Advisory: **5%**

Test Status — Test Stopped

Node: n001

Current Mode

Monitor

Manual

Configure

Help

Quit

Group

Node

o Channel

Channel Level Information:

Node: n001	Power: -2.00
Name: Modem	Start: 24.00
Kind: Dig/Burst	Stop: 30.00
Device: DigBurst	Ctr/Freq: 27.00
Min C/N: 20.00	BW: 6.00

Channel Plan:

Channel Plan 1	556
Channel Plan 7	556

# Critical: **2**

% Advisory: **5%**

'Modem' Alarms

Channel Plan: # Critical 2

Test Plan: Factory - Whole Node

Reset Alarm

Group

Node

o Channel

% C/N Ratio Res

% Available Res

Avg Noise Pwr Res

Chnl Pwr Results

Burst Ctr Results

566

589

593

596

599

100

97

94

91

88

85

82

79

76

73

70

67

Percent

Channel Percent Available - Trend Data

7/27/1999 9:46:54AM

7/27/1999 9:52:54AM

7/27/1999 9:55:42AM

7/27/1999 9:58:17AM

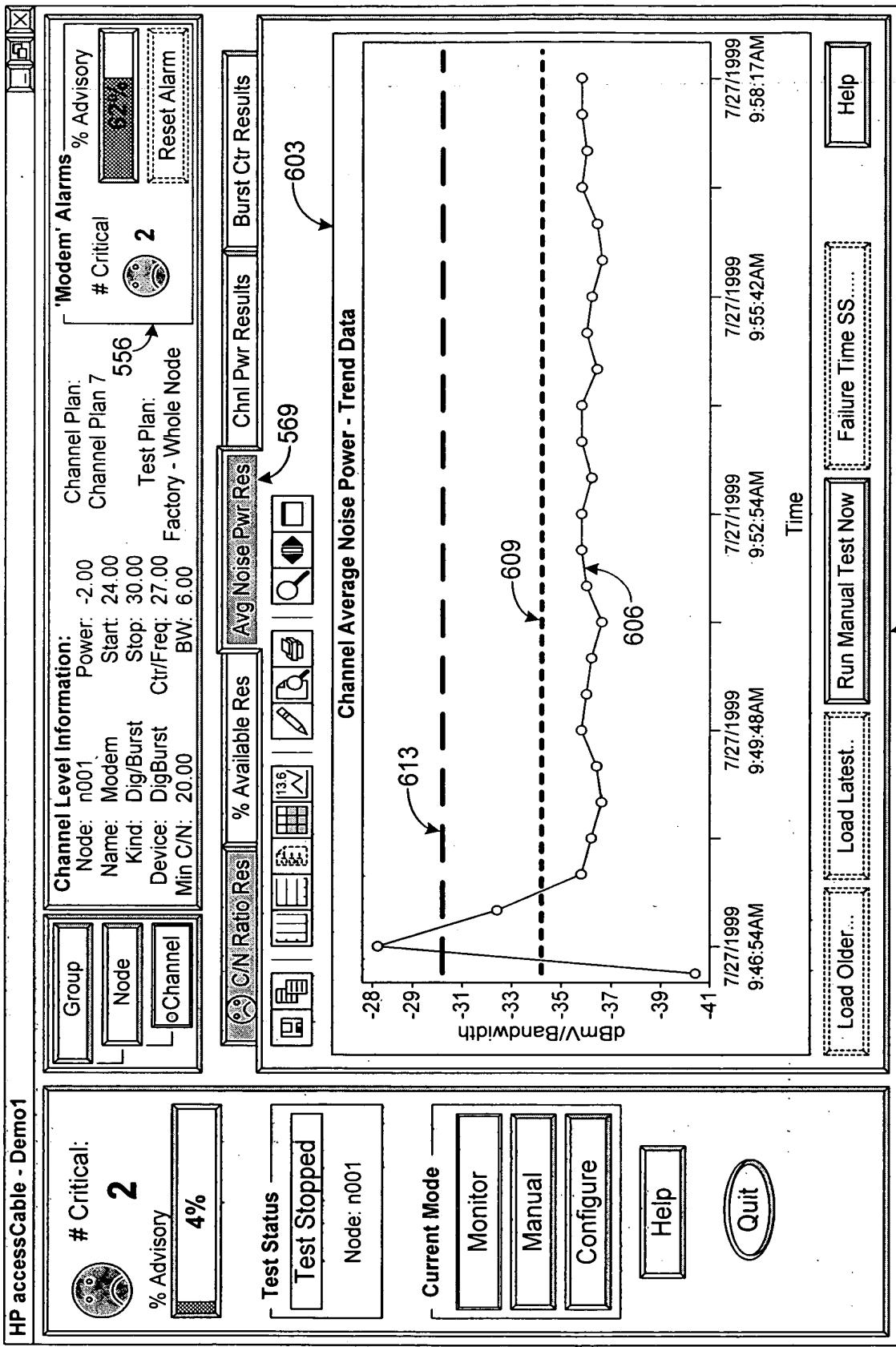
Time

Failure Time SS....

Load Latest...

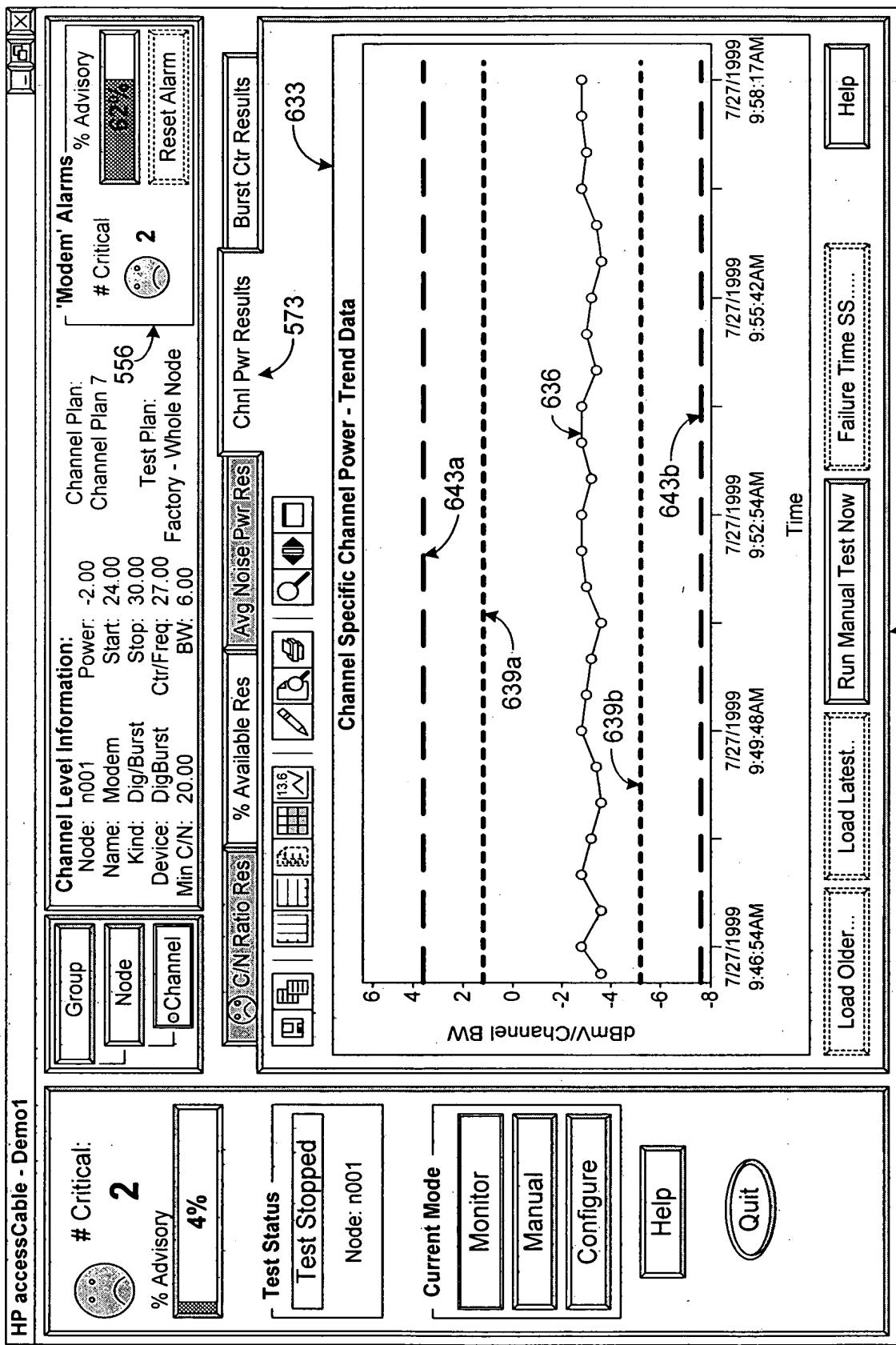
Load Older...

Help



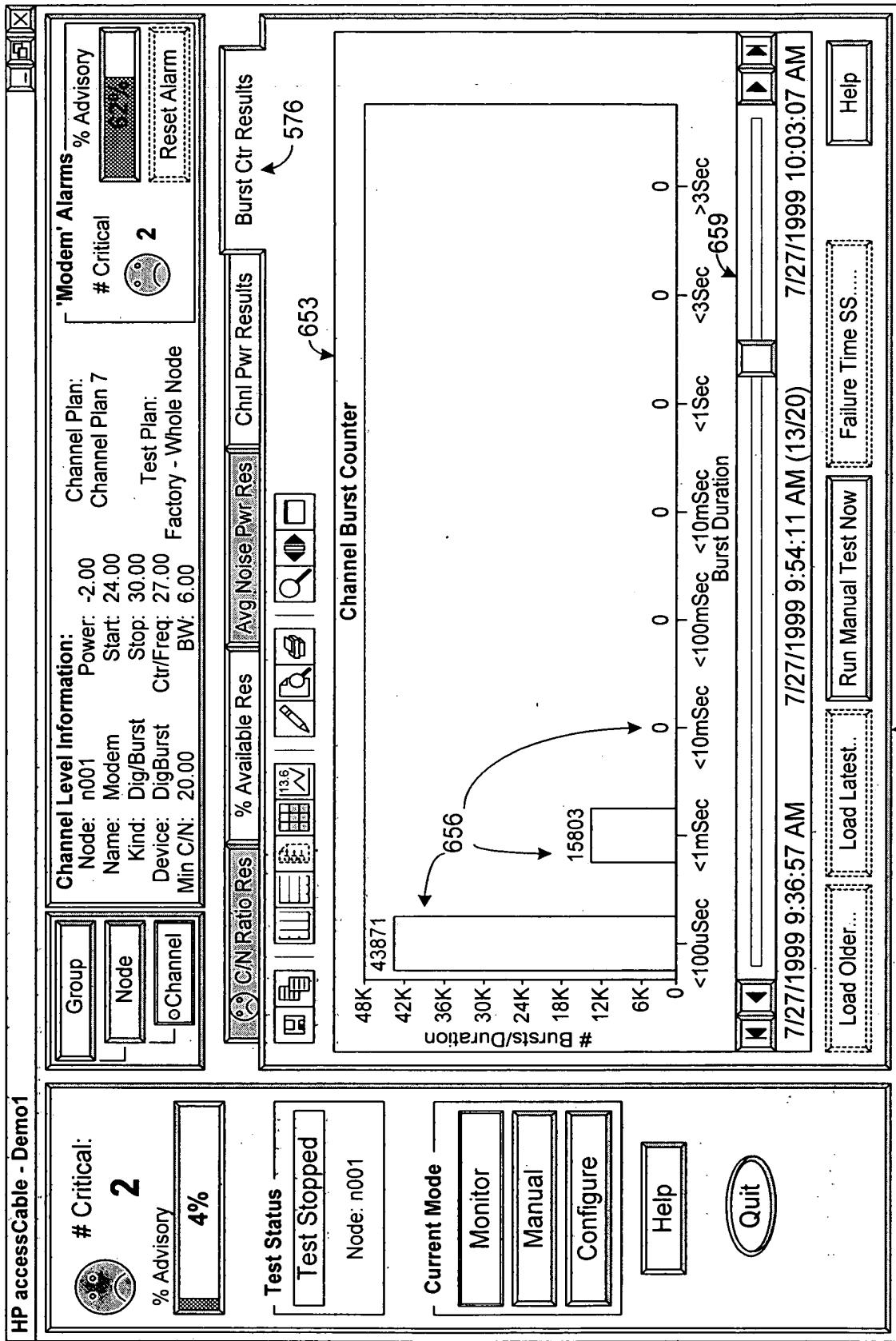
**FIG. 11**

550c —>



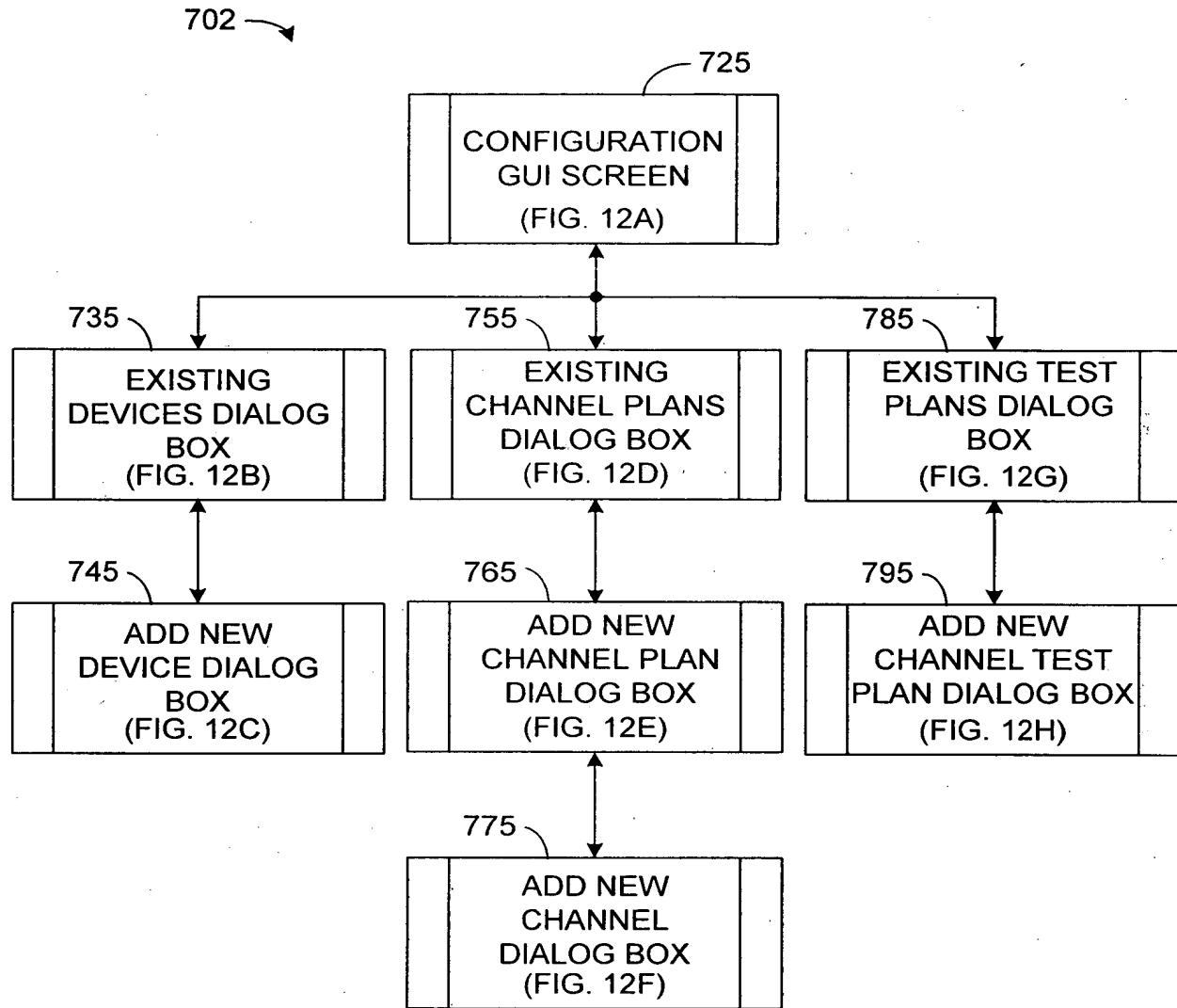
**FIG. 11J**

559d

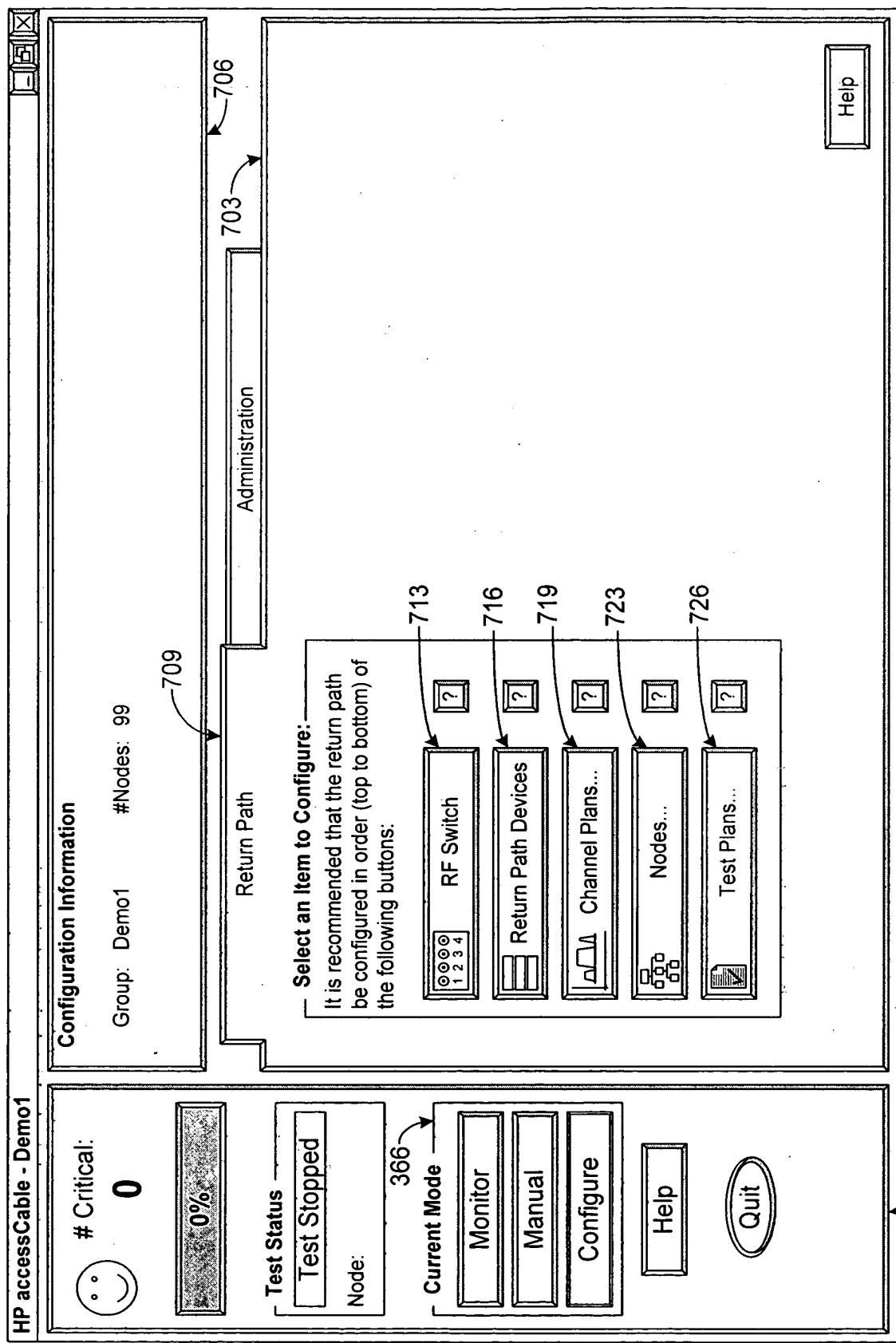


**FIG. 11K**

# TEST CONFIGURATION GUI NAVIGATION



**FIG. 12**



**FIG. 12A**

700→

353

Help

- 713 RF Switch
- 716 Return Path Devices
- 719 Channel Plans...
- 723 Nodes...
- 726 Test Plans...

Help

Quit

366 Current Mode

Monitor

Manual

Configure

Test Stopped

Node:

0  
0%

HP accessCable - Demo1

# Critical:

0



Test Status

Test Stopped

Select an Item to Configure:

It is recommended that the return path be configured in order (top to bottom) of the following buttons:

709  
Return Path

703  
Administration

706

709

Return Path

Administration

703

706

713

RF Switch

716

Return Path Devices

719

Channel Plans...

723

Nodes...

726

Test Plans...

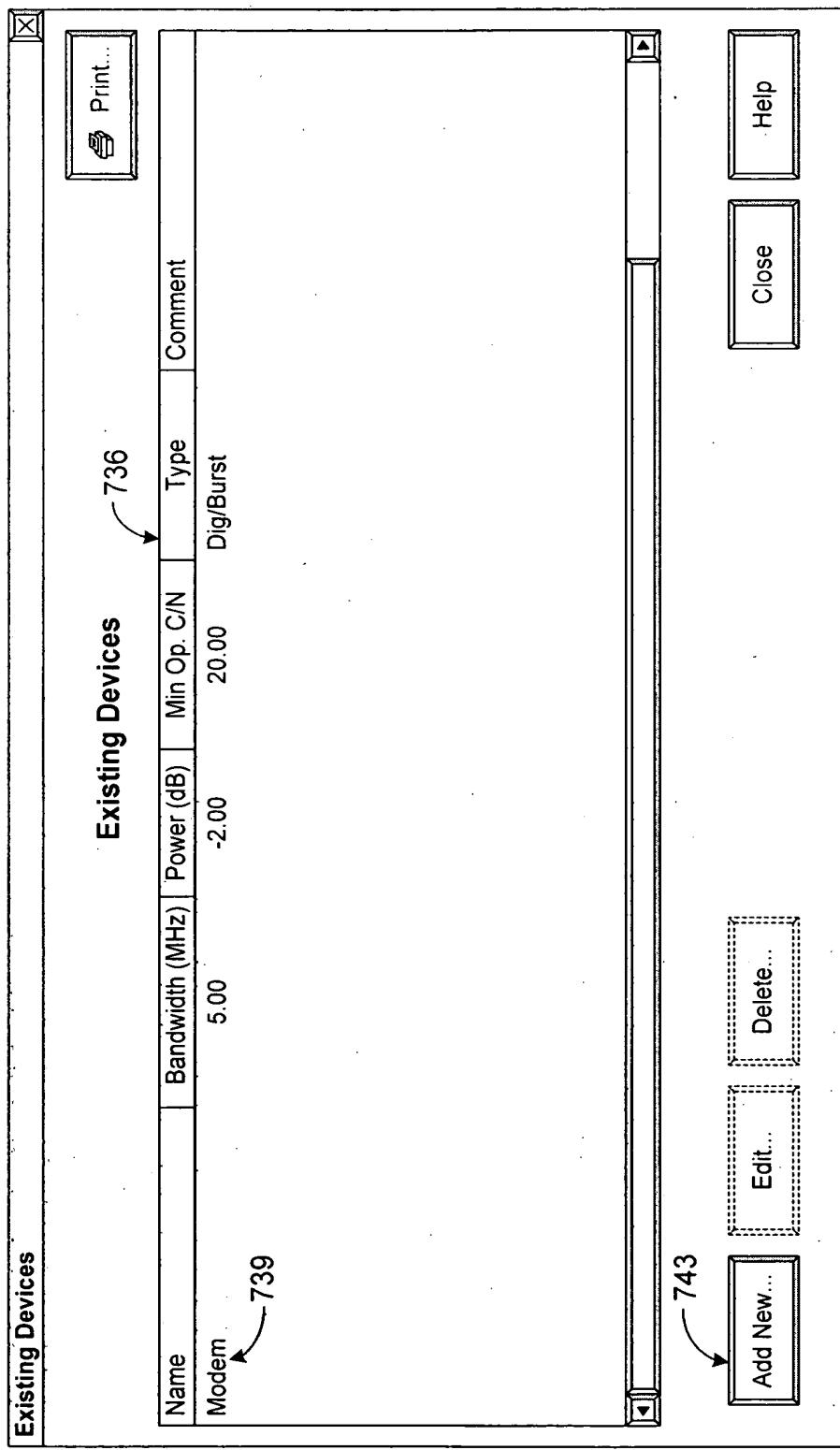
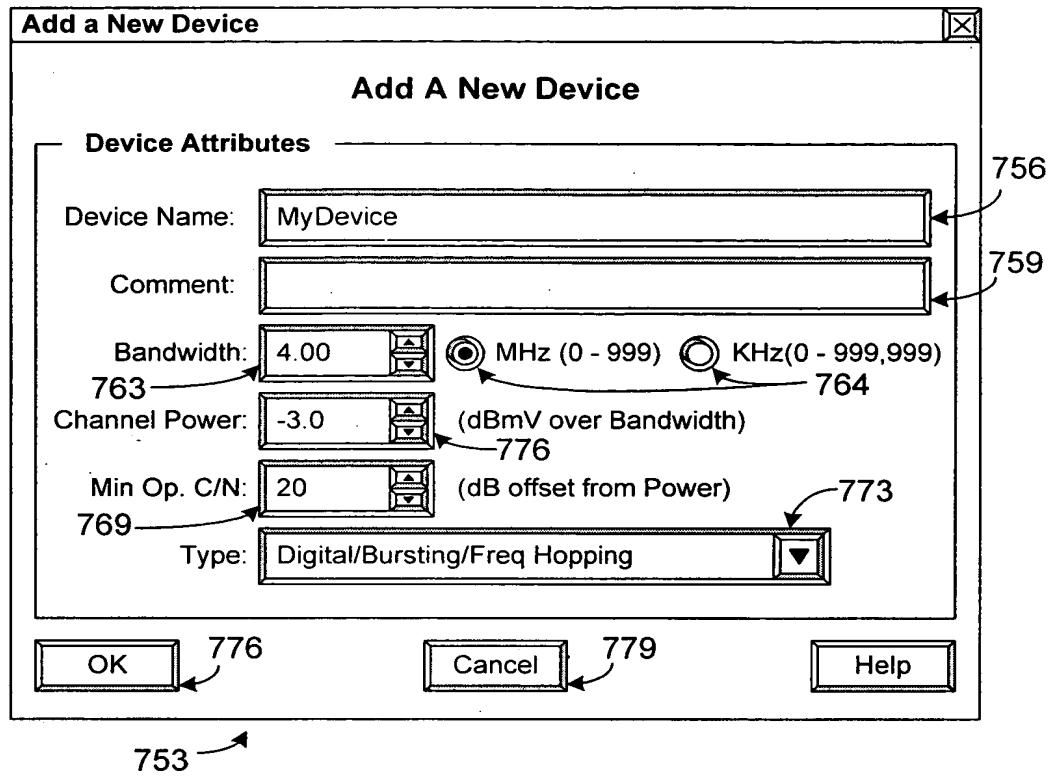
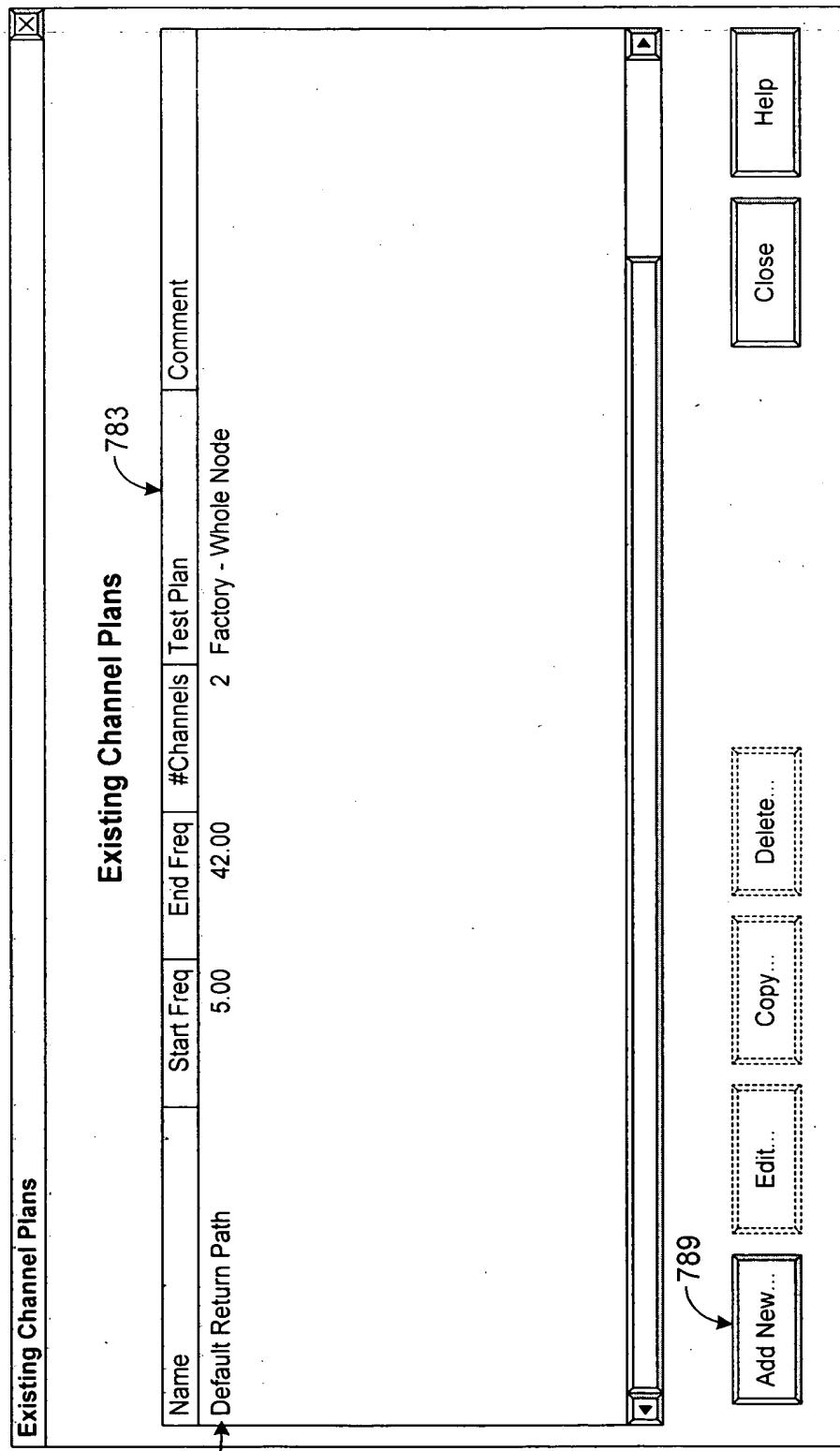


FIG. 12B



**FIG. 12C**



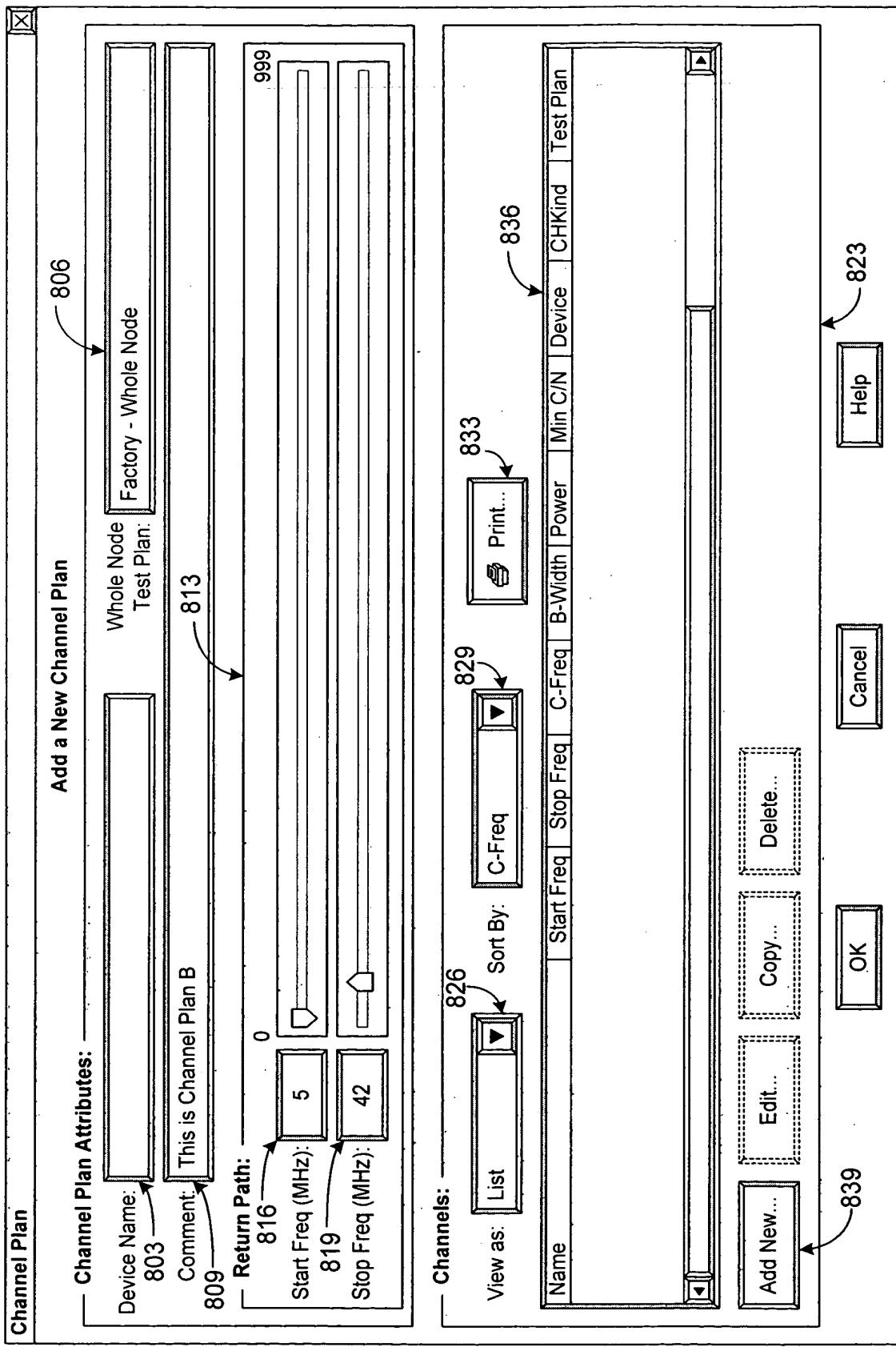
786

789

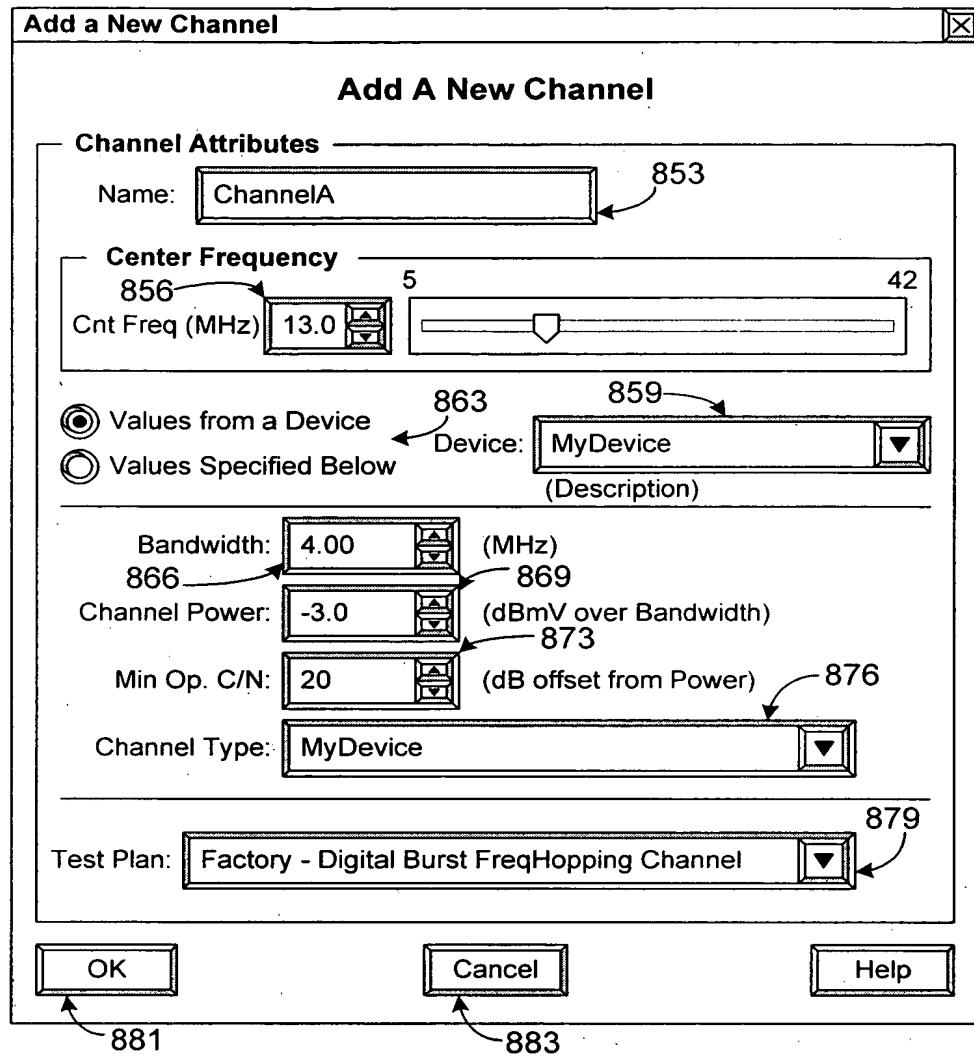
783

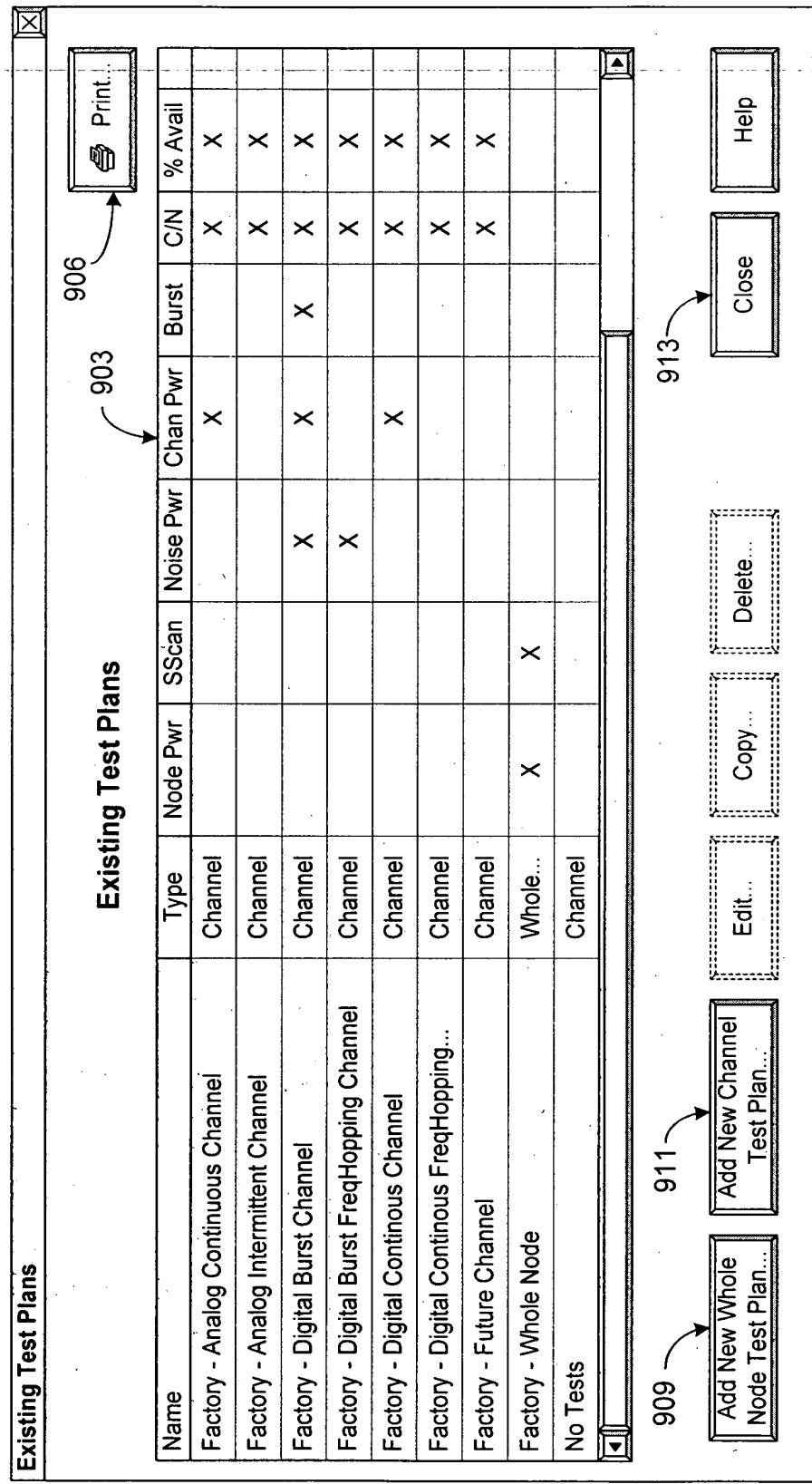
780

**FIG. 12D**

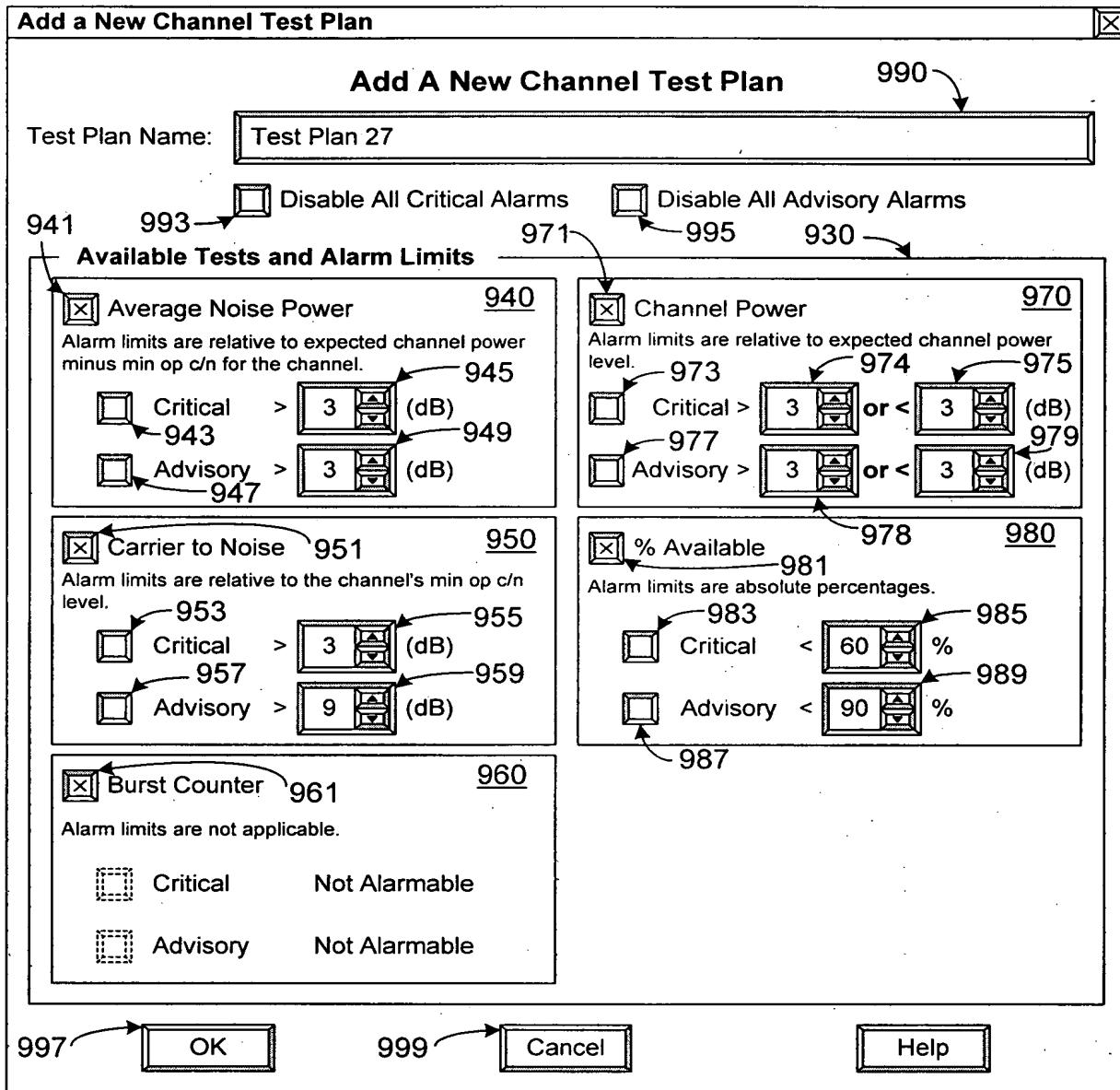


**FIG. 12E**





**FIG. 12G**



**FIG. 12H**